LBT-D590/XB4

SERVICE MANUAL

US Model
Canadian Model
LBT-D590
E Model
Australian Model
PX Model
LBT-XB4

LBT-D590/XB4 are composed following models.
 As for the service manual, it is issued for each component model, then, please refer to it.

COMPONENTS MODEL NAME FOR LBT-D590/XB4

	LBT-D590	LBT-XB4
COMPACT DISC DECK RECEIVER SYSTEM	HCD-D590	HCD-XB4
SPEAKER SYSTEM		SS-XB4V(E,Argentine,Mexican, Australian, PX)

SPECIFICATIONS

General

Power requirements

US, Canadian models:

120V AC, 60Hz

Mexican model:

120V AC, 50/60Hz

Australian model:

220-240 AC, 50 /60Hz

Other models:

110-120V or 220-240V AC

50 /60Hz adjustable with the voltage selector.

Power consumption

US, Canadian models: 170W

Other models: 140W

Supplied accessories
AM loop aerial (1)
Remote RM-SD70 (1)
Sony SUM-3 (NS) batteries (2)
FM wire antenna (1)

Design and specifications are subject to change without notice.

COMPACT HI-FI STEREO SYSTEM





PARTS LIST

NOTE:

 Items marked "*" are not stocked since they are seldom required for routine service.
 Some delay should be anticipated when ordering these items. Abbreviation

CND: Canadian model MX: Mexican model AR: Argentine model

Part. No. Description

ACCESSORIES & PACKING MATERIALS

1-501-374-11	ANTENNA, LOOP
1-501-659-41	ANTENNA (FM)
3-859-536-11	MANUAL, INSTRUCTION (ENGLISH)
3-859-536-21	MANUAL, INSTRUCTION (FRENCH) (CND)
3-859-536-31	MANUAL, INSTRUCTION (FRENCH, SPANISH) (E, AR, MX, PX)
3-859-536-41	MANUAL, INSTRUCTION (CHINESE) (PX)
4-979-371-01	COVER, BATTERY (for RM-SD70)
8-917-581-90	REMOTE COMMANDER (RM-SD70)

HCD-D590/XB4

SERVICE MANUAL



US Model Canadian Model HCD-D590 E Model Australian Model PX Model HCD-XB4

HCD-D590, HCD-XB4 is the tuner, deck, CD and amplifier section in LBT-D590, LBT-XB4.

Photo: HCD-D590

	Model Name Using Similar Mechanism	NEW
CD	CD Mechanism Type	CDM37L-5BD29AL
Section	Base Unit Name	BU-5BD29AL
	Optical Pick-up Name	KSS-213D/Q-NP
Tape deck	Model Name Using Similar Mechanism	HCD-H881
Section	Tape Transport Mechanism Type	TCM-220WR2

SPECIFICATIONS

For the U.S. model **AUDIO POWER SPECIFICATIONS**

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm loads, both channels driven, from 70-20,000 Hz; rated 100 watts per channel minimum RMS power, with no more than 0.9 % total harmonic distortion from 250 milliwatts to rated output.

Amplifier section

Continuous RMS power output

(HCD-D590)

Canadian model: 100+100 watts (8 ohms at 1 kHz, 5%)

(HCD-XB4) 80+80 watts

(5 ohms at 1kHz, 10% THD)

Peak music power output

(HCD-XB4) 1200 watts

PHONO IN (phono jack): sensitivity 3 mV, impedance 47 kilohms VIDEO (AUDIO) IN (phono jack): sensitivity 250 mV, impedance 47 kilohms MIX MIC (phono jack): sensitivity 1 mV, impedance 10 kilohms

PHONES (stereo phone jack):

SPEAKER:

(HCD-D590) (HCD-XB4)

SURROUND SPEAKER:

(HCD-D590)

accepts headphones of 8 odms or more

accepts impeadance of 8 to 16 ohms. accepts impeadance of 5 to 16 ohms.

accepts impeadance of 16 ohms.

- Continued on next page -

COMPACT DISC DECK RECEIVER





CD player section

System compact disc and digital audio system Laser Semiconductor laser ($\lambda = 780$ nm).

Emission

duration: continuous

Laser output Max. 44.6µF*

*This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up block with 7 mm aperture.

Optical Pick-up block with / mm aperture.

Wavelength 780 - 790 nm

Frequency response 2 Hz - 20 kHz (±0.5 dB) Signal-to-noise ratio More than 90 dB Dynamic range More than 90 dB

Tape player section

Recording system 4-track 2-channel stereo

Frequency response (DOLBY NR OFF)

60 - 13,000 Hz (± 3 dB), using a Sony

TYPE I cassette

60 - 14,000 Hz (±3 dB), using a Sony

TYPE II cassette

Wow and flutter $\pm 0.15\%$ W. Peak (IEC)

0.1% W. RMS (NAB) ±0.2% W. Peak (DIN)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section Tuning range

(HCD-D590): 87.5 - 108.0 MHz (100kHz) step (HCD-XB4): 87.5 - 108.0 MHz (50kHz) step

Antenna FM wire antenna
Antenna terminals 75 ohm unbalanced
Intermediate frequency 10.7 MHz

AM tuner section

Tuning range

(HCD-D590): 530 - 1,710 KHz (with the tuning interval set at 10

kHz)

531 - 1,710 KHz (with the tuning interval set at 9

kHz)

(HCD-XB4): 531 - 1,602 kHz

(with the tuning interval set at 9 kHz)

530 - 1,710 KHz

(with the tuning interval set at 10 kHz)
Antenna AM loop antenna, External antenna terminals

Antenna Aivi 100p antenna, Externar antenna terminais

Intermediate frequency 450 kHz

General

Power requirements

 US, Canadian models:
 120 V AC, 60 Hz

 Mexican model:
 120 V AC, 50/60 Hz

 Australian model:
 220 - 240 V AC, 50/60 Hz

Other models: 110 - 120 V or 220 - 240 V AC, 50/60 Hz Adjust-

able with voltage selector

Power consumption

(HCD-D590) 198 watts (HCD-XB4) 165 watts

Dimensions (w/h/d) Approx. 355 x 425 x 435 mm (14 x 16 3/4 x 17 1/

4 in) incl. projecting parts and controls

Mass

(LBT-D590) Approx. 12.3 kg (27 lb 2 oz.) (LBT-XB4) Approx. 11.5 kg (25 lb 6 oz.)

Supplied accessories: AM loop antenna (1)

Remote RM-SD70 (1) Sony SUM-3 (NS) batteries (2) FM wire antenna (1)

FM wire antenna (1 Speaker cords (2)

Design and specifications are subject to change without notice.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CLASS 1 LASER PRODUCT LUOKAN 1 LASERLAITE KLASS 1 LASERAPPARAT

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

CAUTION ; INVISIBLE LASER RADIATION WHEN OPEN, AVOID EXPOSURE TO BEAM.

ADVARSEL ; USYNIG LASERSTRALING VED ABINING IMAR SWKERHEDSARBHYDERE ER UDE AF FUNKTION, UNDGA UDE AT STELLSE FOR STRALING.

VARO! ; AVATTAESSA JA SUOJALUMTUS OHITETTAESSA DLET ALTTIINA LASERSATEIAVILE.

VARNING ; LASERSTRALING IMAR DENNA DEL AR OPPNAD OCH SPÄARBEN AR URXOPPLAD.

ADVARSEL ; USYNIG LASERSTRALING NAR DEKSEL APNES UNINGA EKSPONERING FOR STRALEN.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol \(\pi \) are trademarks of Dolby Laboratories Licensing Corporation.

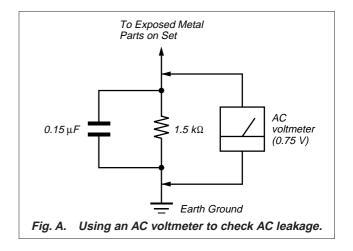
SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer: Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers.). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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Ί.	GENERAL	

SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

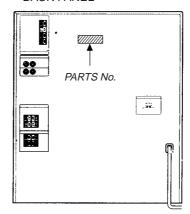
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

MODEL IDENTIFICATION

- BACK PANEL -



MODEL	PARTS No.
D590: US model	4-987-043-7□
D590: Canadian model	4-987-043-8□
XB4	4-987-927-0□

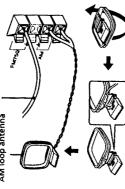
S

SECTION 1

GENERAL

2 Connect the FM/AM antennas. Set up the AM loop antenna, then

Extend the FM wire antenna horizontally. AM loop antenna



voltage (except for North American, Malaysian, Mexican, and Australian 3 Set VOLTAGE SELECTOR to the position of your local power line models).

If you do not use the remote for a long period of time, remove the batteries to avoid possible damage from battery leakage.

When carrying this system

Do the following to protect the CD

mechanism.

To activate the demonstration again, press DISPLAY/DEMO while the system power is off.

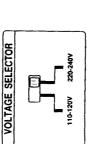
operates the system, replace both batteries with

When vou set the time, the demonstration is

deactivated

new ones.

With normal use, the batteries should last for about six months. When the remote no longer



Press FUNCTION repeatedly until "CD"

appears in the display.

2 Hold down PLAY MODE and press POWER to turn off the power.

4 Connect the power cord to a wall

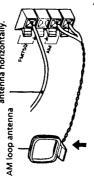
wall outlet, detach the supplied adapter If the plug on this unit does not fit your from the plug (except for North and South American countries, Australia,

by pressing DISPLAY/DEMO while 5 Deactivate the demonstration mode the system power is off.

Follow steps 1 through 5 to hook up your system using the supplied cords and accessories.

Step 1: Hooking up the system

Getting Started



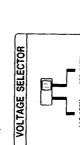
Left speaker

FM antenna

Right speaker

AM loop antenna

5



2 Insert only the stripped portion of the cord. Inserting the vinyl portion will interfere with the speaker connection

The above illustration is of the LBT-XB6K.

The demonstration appears in the

and Malaysia).

The speakers for LBT-D290/G3300/XB3/XB3K do not have the speaker jacks.

Connect the speaker cords to the speaker jacks on the unit.

and no sound will come from the speaker.

Keep the speaker cords away from the SPEAKER jacks of the same color.

antennas to prevent noise.

1 Connect the speaker cords to

1 Connect the speakers.

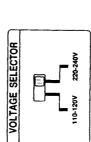
Inserting two size AA (R6) batteries into the remote

connect it.

<u>a</u>

ile Reg

| N



Black (⊝) 3ed (⊕)

Step 2: Setting the time

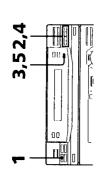
Press ENTER/NEXT.

The clock starts.

You must set the time before using the timer functions.

LBT-D690/XB600/XB6/XB6K only

The hour indication flashes. Press @/CLOCK SET.

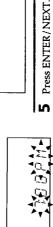


LBT-D290/D590/G3300/XB3/XB3K/ XB4/XB4K only

The hour indication flashes. Press @/CLOCK SET.



Press TUNING +/- to set the hour. The clock uses the 12-hour system.



74,Î0FH

The minutes indication flashes. Press ENTER/NEXT



If you make a mistake, start over from step 1.

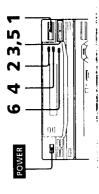
The clock starts.

Press TUNING +/- to set the minutes.



Step 3: Presetting radio stations

You can preset up to 30 stations, 20 for FM and 10 for AM.



いいのの

Press TUNING +/- to set the hour.

The clock uses the 12-hour system.

until the band you want appears in Press TUNER/BAND repeatedly the display.

温泉

Each time you press this button, the band changes as follows: Press TUNING MODE repeatedly until "AUTO" appears in the display.

E-00/7-

The minutes indication flashes.

Press ENTER/NEXT

Press TUNING +/- to set the

minutes.

scanning stops when the system tunes in a station. "TUNED" and "STEREO" (for The frequency indication changes and a stereo program) appear. Press TUNING +/-



100.50 LBT-D690/XB600/XB6/XB6K ()

A preset number flashes in the display. Press TUNER MEMORY.

LBT-D290/D590/G3300/XB3/XB3K/XB4/XB4K MEMBRY -

LBT-D690/XB600/XB6/XB6K

Press TUNING +/- to select the preset number you want. LBT-D290/D590/G3300/XB3/XB3K/XB4/XB4k TARS STEREGAUTO ✓ RADNAH.... LBT-D690/XB600/XB6/XB6K

Press ENTER/NEXT. The station is stored.

Repeat steps 1 through 6 to store other stations.

To tune in a station with a weak

"MANUAL" appears in step 2, then press Press TUNING MODE repeatedly until TUNING +/- to tune in the station.

To change the preset number Start over from step 1. To change the AM tuning interval

The AM tuning interval is factory-preset to 9 kHz (10 kHz in some areas). To change the AM tuning interval to 10 kHz (or 9 kHz), tune in any AM station first, then turn off the power. While holding (Except for the Middle Eastern model) down ENTER/NEXT, turn the power back on.
When you change the interval, the AM preset
stations will be erased. To reset the interval, repeat the same procedure.

The preset stations are canceled when you disconnect the power cord or if a power failure occurs for half a day.

Connecting optional AV components

To enhance your system, you can connect optional components. Refer to the instructions included with each component for details.

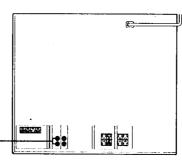
Connecting audio components

Connecting a turntable Be sure to match the color of the plugs and the connectors. To listen to the sound from the connected turntable, press FUNCTION

repeatedly until "PHONO" appears.

To the audio output of the turntable





Note

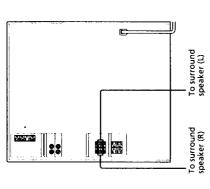
Using the turntable at high volume may cause distortion or howling. This is often caused by the bass sound from the speakers. The bass sound may be picked up by the needle of the turntable, and produce the distortion or howling. To avoid this, do the following:

- 1 Keep some distance between the speakers and the turntable.
- 2 Stop using the surround effect.
 3 Install the speakers or the turntable on a firm and
 - stable surface.
- Press DBFB repeatedly until "DBFB NIVIN" disappears from the display (LBT-D290/G3300/XB3/XB3K only).

Press SLPER WOOFER repeatedly until the indicator on this button goes off (except for LBT-D290/G3300/XB3/XB3K).

Connecting surround speakers (LBT-D590/D690/XB600/XB6/XB6/ only)

You can connect optional surround speakers.



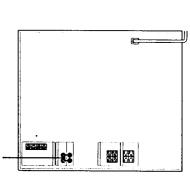
ote

You need to connect both left and right surround speakers. Otherwise, the sound will not be heard.

Connecting a VCR

Be sure to match the color of the plugs and the connectors. To listen to the sound from the connected VCR, press FUNCTION repeatedly until "VIDEO" appears.

To the audio output of the VCR

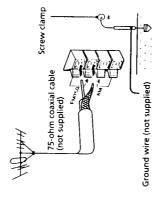


Connecting outdoor antennas

Connect an outdoor antenna to improve the reception.

FM antenna

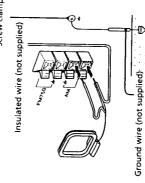
Connect an optional FM outdoor antenna. You can also use the TV antenna instead.



AM antenna

Connect a 6 to 15 meter (20 to 50 feet) insulated wire to the AM antenna terminal. Leave the supplied AM loop antenna connected.

Screw clamp



Important

If you connect an outdoor antenna, connect a ground wire to the h terminal with the screw clamp. To prevent a gas explosion, do not connect the ground wire to a gas pipe.

Basic Operations

- Normal Play

Playing a CD

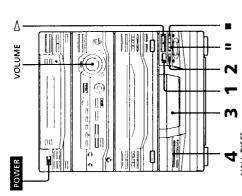
If the disc is not placed properly it will

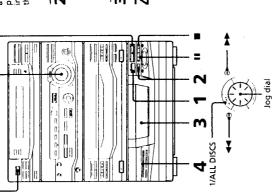
the disc tray.

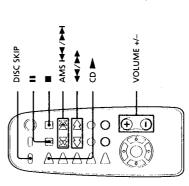
not be recognized.

Press ♠ OPEN and place a CD on

You can play up to five CDs in a row.







With the labe! side up.
When you play
a CD single,
place it on the
inner circle of
the tray.

Press DISC SKIP to place up to four The disc tray rotates so you can insert more CDs on the tray.

3 Close the front cover.

other CDs.

Press one of the DIRECT PLAY 4

If you press ▷ (or CD ➤ on the remote), playback ștarts from the CD in the playing position. Playback starts.

LBT-D290/D590/G3300/XB3/XB3/XB4/XB4K Disc number in the playing position Track number 00 00 00

Disc number in the playing position I Track number Elapsed fime 0) 0 0 LBT-D690/XB600/XB6/XB6K

To	Do this
Stop playback Press .	Press
Pause	Press III. Press again to resume playback.
Select a track	During playback or pause, turn the jog dial clockwise (to go forward) or counterclockwise (to go backward) and release it when you reach the desired track. Or pross AMS* PPF (to go forward) or AMS* PPF (to go backward) on the remote.
Find a point ir a track	Find a point in Press and hold ▶▶ or ◄◄ during a track playback, and release at the desired point.
Select a CD	Press one of the DIRECT PLAY buttons (or DISC SKIP).
Play only the CD you have selected	Press 1/ALL DISCS repeatedly until "1 DISC" appears.
Play all CDs	Press 1/ALL DISCS repeatedly until "ALL DISCS" appears.
Remove or change the CDs	Press ♠ OPEN.
Adjust the volume	Turn VOLUME (or press VOLUME +/ - on the remote).

AMS: Automatic Music Sensor

- Pressing ▷ while the power is off automatically turns the power on and starts CD playback if there is a CD on the tray (One Touch Play).
 - You can switch from another source to the CD player and start playing a CD just by pressing E> or one of the DIRECT PLAY buttons (Automatic Source Selection).

Elapsed time

If there is no CD in the player, "NO DISC" appears in the display.
 You can change the CD in the loading position during playback.

Basic Operations

Turn VOLUME (or press VOLUME +/- on the

Adjust the volume

Turn off the radio

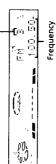
remote).

Press POWER.

Do this

LBT-D290/D590/G3300/XB3/XB3K/XB4/XB4K Preset number on the remote) to tune in the desired LIKEN CHALL GRADI

Preset number 10050 Frequency LBT-D690/XB600/XB6/XB6K ¥. -7))))



To listen to non-preset radio stations

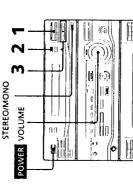
until "MANUAL" appears, then press TUNING +/- to tune in the desired station. Press TUNING MODE repeatedly in step 2

Tips

- automatically turns on the power and tunes to the last received station (One Touch Play). Pressing TUNER/BAND while the power is off
 - You can switch from another source to the radio just by pressing TUNER/BAND (Automatic Source Selection).
- If an FM program is noisy, press STEREO/ MONO so: "MONO" appears in the display. There will be no stereo effect, but the reception will improve. Press this button again to restore the stereo effect.
 - To improve broadcast reception, move the supplied antennas.

Before using this function, preset radio

3: Presetting radio stations").



select (or RELAY) to record on

both sides.

(0)

o

þ

Press II on deck B.

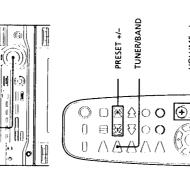
Recording starts.

select == to record on one side, or

6 Press DIRECTION repeatedly to

front side) lights up.





Press TUNER/BAND repeatedly the display.

band changes as follows: FM

→ AM

VOLUME +/-0

Press ■ on deck B or on the CD player.

Tips

To stop recording

side, recording stops at the end of the reverse side.

When you record on both sides, be sure to start from the front side. If you start from the reverse

side) lights up.

• When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY NR before step 7 so "DOLBY NR B" appears in the

SURROUND so "SUR [[[immit]]" appears in the

To record with the surround effect, press

display.

With the side you want to record on facing forward

Press ♣ EJECT and insert a blank

DOLBY NR 3

G

tape into deck B.

The equalizer settings will not be recorded

until the band you want appears in Each time you press this button, the

You cannot listen to other sources while recording

Press ♣ OPEN and place a CD.

With the label -

side up.
When you play
a CD single,
place it on the
inner circle of
the tray.

Press TUNING MODE repeatedly until "PRESET" appears in the

Listening to the radio

3 Press TUNING +/- (or PRESET +/-

preset station.

- Preset Tuning

the disc number you want to record

appears in the playing position

This function lets you record from a CD to a TYPE II (CrO2) tapes. The recording level is tape easily. You can use TYPE I (normal) or

- CD Synchro Recording Recording a CD

indicator.

Press DISC SKIP repeatedly until

4

Close the front cover.

Deck B stands by for recording and the CD player stands by for playback, and the indicator on the → button (for the

S

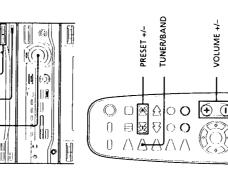
V

POWER SURROUND adjusted automatically.

00

Press CD SYNC.

stations in the tuner's memory (see "Step

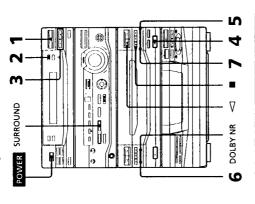


MANUAL → AUTO → PRESET

12

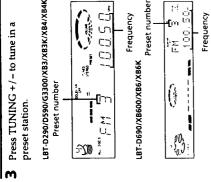
Recording from the

You can record a radio program on a tape by tuning in a preset station. You can use TYPE I (normal) or TYPE II (CrO:) tapes. The recording level is automatically adjusted.

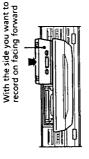


until the band you want appears in Press TUNER/BAND repeatedly the display.

Press TUNING MODE repeatedly until "PRESET" appears in the display.



4 Press EJECT and insert a blank tape into deck B.



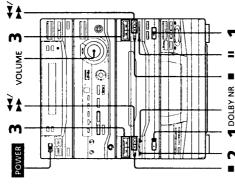
Deck B stands by for recording, and the indicator on the D button (for the front Press
REC.

select (=> (or RELAY) to record on select == to record on one side, or Press DIRECTION repeatedly to both sides. 9

Press
on deck B.

Playing a tape

You can play any type of tape, TYPE I (normal), TYPE II (CrO₂) or TYPE IV (metal). The deck automatically detects the tape type. To select either deck A or B, press DECK A ▼ or DECK B ▼ on the remote.



DOLBY NR

• To record with surround effect, press SURROUND so "SUR (|tremit)" appears in the

move the appropriate antenna to reduce the noise

• If you want to record on the reverse side, press so the indicator on the Dutton (for the reverse

side) lights up.

• When you record on both sides, be sure to start from the front side. If you start from the reverse side, recording stops at the end of the reverse side, To record non-preset stations, select "MANUAL" in step 2, then press TUNING +/- to tune in the desired station.

When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY NR before step 7 so "DOLBY NR B" appears in the

· If noise is heard while recording from the radio, The equalizer settings will not be recorded.

side) lights up.

Press II on deck B. Recording starts.

VOLUME +/-

 \odot 0

000

DECK A

塞延

0

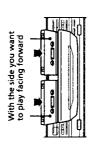
DECK B

To stop recording

4

Playing a Tape (continued)

recorded tape in deck A or B. Press ➡ EJECT and insert a



select == to play one side, c=>* to play both sides, or RELAY (Relay Press DIRECTION repeatedly to Play)** to play both decks in succession.

Press ∇

Press

to play the reverse side. The tape starts playing.

- The deck stops automatically after playing both sides five times.
 - Deck A (front side), Deck A (reverse side), Deck B (front side), Deck B (reverse side). ** Relay Play always plays according to the following sequence:

Do this	Press	
To	Stop play	

To	Do this
Stop play	Press .
Pause (Deck B only)	Pause (Deck B only) Press II. Press again to
	resume play.
Fast-forward	Press Wwhile playing
	the front side or ◀◀ while
	playing the reverse side.
Rewind	Press ← while playing
	the front side or ** while
	playing the reverse side.
Remove the cassette	Press EJECT.
Adjust the volume	Turn VOLUME (or press
	VOLUME +/- on the
	remote).

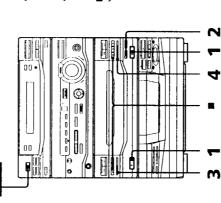
Pressing outomatically turns on the power and starts tape playback if there is a tape in the deck (One Touch Play).

- Selection)
 - When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY NR so "DOLBY NR B" appears in the display.

Recording from a

- High-speed Dubbing

You can use TYPE I (normal) or TYPE II (CrO2) tapes. The recording level is automatically adjusted.



recorded tape in deck A and a blank tape in deck B.

With the side you want to play/record on facing forward þ

- Deck B stands by for recording. Press H SPEED DUB.
- select == to record on one side, or C=> (or RELAY) to record on both Press DIRECTION repeatedly to

4 Press II.

When dubbing ends, decks A and B automatically stop. Dubbing starts.

To stop dubbing

Press on deck A or B.

- When you dub on both sides, start recording from the front side. If you start from the reverse side, recording stops at the end of the reverse side.

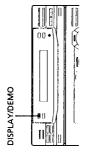
• You don't have to set DOLBY NR, since the tape in deck B is automatically recorded in the same state use have different lengths, the tape in each deck reverses independently. If you select RELAY, the tapes in both decks reverse together: as the tape in deck A.

You cannot record the surround effect.

The CD Player

Using the CD display

You can check the remaining time of the current track or the whole CD.



➡ Press DISPLAY/DEMO during playback. Each time you press this button in Normal Play, the display changes as follower. Penaining time on the current track

Remaining time on the current track

Remaining time on the current CD (1 DISC mode) or

"PLAY" (ALL DISCS mode)

Clock display (for a few seconds)

— Effect (P FILE) name or "EFFECT ON (OFF)"

To check the total playing time and the number of tracks on a CD Press DISPI AV/DEMO in transmode

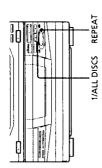
Press DISPLAY/DEMO in stop mode.

If you press DISPLAY/DEMO again, the clock display appears for a few seconds then the display returns to the previous indication.

Playing CD tracks repeatedly

- Repeat Play

This function lets you repeat a single CD or all CDs in Normal Play, Shuffle Play, and Program Play.



◆ Press REPEAT repeatedly during playback until "REPEAT" appears in the display. Repeat Play starts. The following table

describes the various repeat modes.

To repeat	Press
All the tracks on	All the tracks on 1/ALL DISCS repeatedly
the current CD	until "1 DISC" appears in the
	display.
All the tracks on	All the tracks on 1/ALL DISCS repeatedly
all CDs	until "ALL DISCS" appears
	in the display.
Only one track*	REPEAT repeatedly while
	playing the track you want to
	repeat until "REPEAT 1"
	appears in the display.

' You can't repeat a single track during Shuffle Play and Program Play.

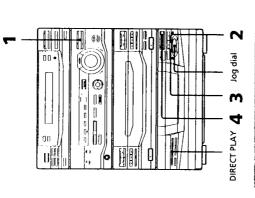
To cancel Repeat Play

Press REPEAT repeatedly until "REPEAT" or "REPEAT I" disappears from the display.

Playing CD tracks in random order

— Shuffle Play

You can play all the tracks on one CD or all the CDs in random order.



Press FUNCTION repeatedly until "CD" appears in the display.

Press PLAY MODE repeatedly until "SHUFFLE" appears in the display.

Press 1/ALL DISCS to choose "1 DISC" or "ALL DISCS."
"All DISCS" shuffles the tracks on all the CDs in the player. "1 DISC" shuffles the tracks on the CD in the playing position.

Press \triangleright . " \mathcal{C}_2 " appears and all the tracks play in random order.

To cancel Shuffle Play Press PLAY MODE repeatedly until "SHUFFLE" or "PROGRAM" disappears from the display. The tracks continue playing in their original order.

To select a desired CD

Press one of the DIRECT PLAY buttons during 1 Disc Shuffle Play.

Tips

- You can start Shuffle Play during Normal Play by pressing PLAY MODE repeatedly until
 - pressing PLAY MODE repeatedly until "SHUFFLE" appears in the display.

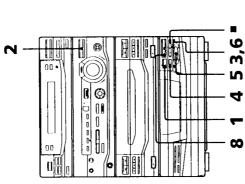
 - To skip a track, turn the jog dial clockwise (or press AMS ▶₱ on the remote).

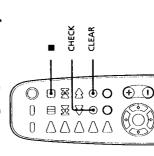
2

Programming CD tracks

- Program Play

You can create a program of up to 32 tracks from all the CDs in the order you want them to be played.





Place CDs and close the front cover.

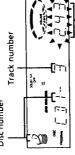
- Press FUNCTION repeatedly until "CD" appears in the display.
- Press PLAY MODE repeatedly until "PROGRAM" appears in the display.
- Press DISC SKIP to select a CD.
- Turn the jog dial until the desired track appears in the display.

LBT-D290/D590/G3300/XB3/XB3K/XB4/XB4K Disc number

"PROGRAM" or "SHUFFLE" disappears from the display.

Press PLAY MODE repeatedly until

To cancel Program Play



Total playing time

LBT-D690/XB600/XB6/XB6K Track number

rotal playing time

the programmed playing order appear, followed by the total playing time. The track is programmed. "STEP" and Press PLAY MODE once. 9

LBT-D290/D590/G3300/XB3/XB3K/XB4/XB4K The last programmed track



LBT-D690/XB600/XB6/XB6K The last programmed track Total playing time



Total playing time

Playing CDs without interruption

Skip step 4 to select tracks from the

same disc.

To program additional tracks,

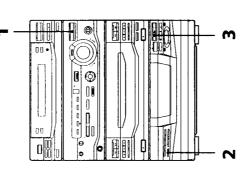
repeat steps 4 through 6.

— Non-Stop Play

You can play CDs without pausing between

All the tracks play in the order you

Press 🗸 selected.



CHECK on the remote repeatedly. After the last track, "CHECK

Press

Check the program

CHECK on the remote number of the track to

CLEAR on the remote

Clear the last selected track Clear a specific track

in stop mode.

END" appears.

Press FUNCTION repeatedly until "CD" appears in the display.

once in stop mode or

Clear the entire

program

twice while playing.

3 Press PLAY MODE.

select a track.

1 Press DISC SKIP to 2 Turn the jog dial to

Add a track to the

program

select a CD.

be cleared lights up, then press CLEAR. repeatedly until the

Press NON-STOP so the indicator on this button lights up.

Press 🔽

player's memory even after it has been played. Press ▷ to play the same program again. • If "..." appears instead of the total playing time

• The program you created remains in the CD

To cancel Non-Stop Play

Press NON-STOP so the indicator on this button goes off.

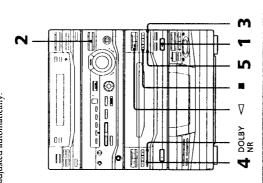
the total playing time has exceeded 100 minutes.

- you have programmed a track numbered over 20, or

while programming, this means:

Recording on a tape manually

You can record from CDs, tapes, or the radio the songs you want or begin recording from the middle of the tape. The recording level is as you like. For example, you can record just adjusted automatically.



- Insert a blank tape into deck B.
- Press FUNCTION repeatedly until the source you want to record (e.g., CD) appears in the display.
- Press
 REC

Deck B stands by for recording, and the indicator on the D button (for the front side) lights up.

select == to record on one side, or C=> (or RELAY) to record on both 4 Press DIRECTION repeatedly to

specifying the track **Recording CDs by** order

Start playing the source to be

ဖ

recorded

Press II on deck B. Recording starts.

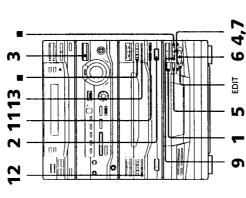
— Program Edit

on deck B II on deck B

Pause recording

Stop recording

Press



LBT-D290/D590/G3300/XB3/XB3K/XB4/XB4K Disc number

Track number

Turn the jog dial until the desired Press DISC SKIP to select a CD.

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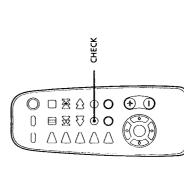
• If you want to record on the reverse side, press \triangleleft so the indicator on the \triangleleft button (for the reverse

Tips

side) lights up

When you want to reduce the hiss noise in low-level high-frequency signals, press DOLBY NR before step 5 so "DOLBY NR B" appears in the display.

track appears in the display.



Total playing time (including selected track)

Total playing time (including selected track)

Track number

LBT-D690/XB600/XB6/XB6K Disc number

Place CDs and close the front cover. Insert a blank tape into deck B.

You can record tracks from all the CDs in the order you want. When programming, make sure the playing times for each side do not exceed the length of one side of the tape.

Press PLAY MODE repeatedly until

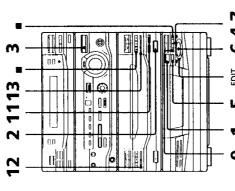
4

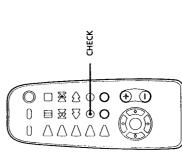
"PROGRAM" appears in the

display.

3 Press FUNCTION repeatedly until

"CD" appears in the display.





23 continued

Recording CDs by specifying the track order (continued)

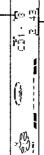
the programmed playing order appear, The track is programmed. "STEP" and followed by the total playing time. Press PLAY MODE once.

LBT-D290/D590/G3300/XB3/XB3K/XB4/XB4K

5.4 W The last programmed track W 450 1 ---J)))

Previously selected track

LBT-D690/XB600/XB6/XB6K
The last programmed track



Repeat steps 5 through 7 to program additional tracks to be recorded on side A. ∞

Skip step 5 to select tracks from the same

Press II to insert a pause at the end of side A.

"P" appears in the display and the total playing time resets to "0.00" in the 9

10 Repeat steps 5 through 7 to program Skip step 5 to select tracks from the same the tracks to be recorded on side B.

11 Press CD SYNC.

Deck B stands by for recording, the CD player stands by for playback, and the indicator on the \triangleright button (for the front side) lights up.

select == to record on one side, or (□ (or RELAY) to record on both 12 Press DIRECTION repeatedly to sides.

13 Press II on deck B. Recording starts.

To stop recording

Press son deck B or on the CD player.

To check the order

Press CHECK on the remote repeatedly. After the last track, "CHECK END" appears.

To cancel Program Edit

Press PLAY MODE repeatedly until "PROGRAM" or "SHUFFLE" disappears from the display.

Selecting the tape length automatically

— Tape Select Edit

Previously selected track

You can check the most suitable tape length for recording a CD. Note that you cannot use Tape Select Edit for discs containing more than 20 tracks.

◆ After inserting a CD, press EDIT once so "EDIT" flashes.

the playing position appears, followed by the total playing time for sides A and B. The required tape length for the CD in

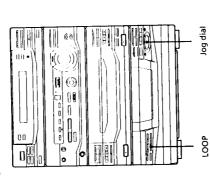
Note

You cannot use this function when Program Play mode has been set. After clearing the entire program (see "To clear the entire program" on page 21), follow the above procedure.

Looping part of a CD

d007 -

With the loop function, you can repeat part of a CD during playback. This lets you create original recordings.



start the Loop function, and release playback at the point you want to Press and hold LOOP during to resume normal playback. t

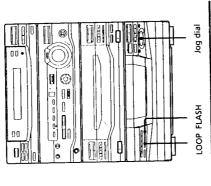
To adjust the loop length

Turn the jog dial while holding LOOP (or press MUSIC MENU ♦ or ♦ while holding LOOP on the remote) to select different loop

Flashing part of a CD

- Flash

With the flash function, you can "flash" the CD sound during playback. This lets you create original recordings.



start the Flash function, and release playback at the point you want to ➡ Press and hold FLASH during to resume normal playback.

To adjust the flash length

Turn the jog dial while holding FLASH (or press MUSIC MENU ♦ or ♦ while holding FLASH on the remote) to select different flash lengths.

To use LOOP and FLASH together

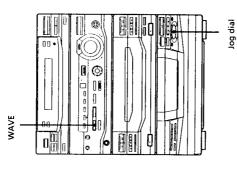
Press and hold both LOOP and FLASH at the same time.

The loop and flash length cannot be adjusted in stop mode. Adjust the loop and flash lengths during operation.

Waving the equalizer

Wave

With the Wave function, you can fluctuate the graphic equalizer automatically while listening to a source. This effect can be used with any source, but it cannot be recorded.



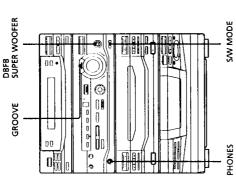
→ Press and hold WAVE while listening to a source at the point you want to start the Wave function, and release to resume normal playback.

To adjust the wave length

Turn the jog dial while holding WAVE to select different wave lengths.

Sound Adjustment Adjusting the sound

You can reinforce the bass, create a more powerful sound, and listen with headphones.



To reinforce the bass (DBFB) (LBT-D290/G3300/XB3/XB3K only) Press DBFB.*

Each time you press this button, the DBFB level display changes as follows:

DBFB B.W. — DBFB B.W.W. — display off

"DBFB B.W.W." reinforces the bass more than
"DBFB B.W.W."

DBFB = Dynamic Bass Feedback

To reinforce the bass from the super woofer (SUPER WOOFER) (except for LBT-D290/G3300/XB3/XB3K)

Press SUPER WOOFER.
Each time you press this button, the super woofer level display changes as follows:
SUPER WOOFER FLAT → LOW→ HIGH

To select the super woofer mode (except for LBT-D290/G3300/XB3/XB3/XB3/)

Press S/W MODE while the super woofer is

Each time you press this button, the super woofer mode display changes as follows: MOVIE ← MUSIC

For a powerful sound (GROOVE)

Press GROOVE.

The volume switches to power mode, the equalizer curve changes, the bass level (DBFB or SUPER WOOFER changes to "HIGH," and the indicator on the GROOVE button lights up. Press GROOVE again to return to the previous volume.

Notes

- The music sound will be distorted when you use the DBFB system with the graphic equalizer if the bass is too strong. Adjust the bass slowly while listening to the music so you can monitor the
 - effect of the adjustment.

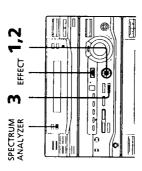
 Canceling GROOVE cancels the equalizer curve and bass level. Adjust the equalization to obtain the effect you desire.

To listen through the headphones Connect the headphones to the PHONES jack. No sound will come from the speakers.

Selecting the audio emphasis

The audio emphasis menu lets you select the sound characteristics according to the music you are listening to.

The personal file function (see "Making a personal audio emphasis file (Personal File)") lets you store your own effects.



Press GEQ ◆/◆ (or MUSIC MENU below. The last audio emphasis chosen from that menu appears in the display. ◆/ ◆ on the remote) repeatedly to See the chart "Music menu options" select MENU 1 or MENU 2.

Press GEQ ◆/◆ (or MUSIC MENU ◆/◆ on the remote) repeatedly to select the audio emphasis you desire. The audio emphasis name appears in the display.

Press ENTER

You don't need to press ENTER when you use the remote.

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To cancel the audio emphasis

Press EFFECT (or MUSIC MENU ON/OFF on the remote) repeatedly so the indicator on the EFFECT button goes off.

Music menu options

"SUR Illimith" appears if you select an audio emphasis with a surround effect.

Press	To select	
GEQ ♦/◆	MENU 1	MENU 2
GEQ ◆/◆	ROCK	MOVIE
	POP	GAME
	JAZZ	NICHT
	DANCE	PARTY
	SALSA	RFI AX

To change the equalizer display

Each time you press SPECTRUM ANALYZER, the equalizer display changes to show one of the four displays below.

LBT-D690/XB600/XB6/XB6K	
LBT-D290/D590/ G3300/XB3/XB3K/ XB4/XB4K	<u> </u>

3,4 00 12 6 00 000

Adjusting the graphic equalizer

owering the levels of specific frequency You can adjust the sound by raising or

Before operation, first select the basic audio emphasis you want for your sound.

Select the basic audio emphasis you want for your sound.

The frequency range appears and the level value flashes in the display. (see "Selecting the audio emphasis.") Press GEQ CONTROL.

3 Press GEQ ◆/◆ repeatedly to select a frequency band. LBT-D290/D590/G3300/XB3/XB3K/XB4/XB4K ごエニ 5Y)))

西京歌山野 LBT-D690/XB600/XB6/XB6K 90);

F9

4 Press GEQ ◆/◆ to adjust the level.

Adjusting the audio

emphasis

LBT-D290/D590/G3300/XB3/XB3K/XB4/XB4K D 7H:

You can adjust the audio emphasis using the

graphic equalizer and surround effect.

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LBT-D690/XB600/XB6/XB6K

Repeat steps 3 and 4 to adjust the other frequency bands. 'n

Press ENTER when finished. 9

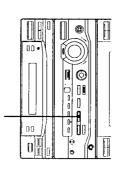
Note

If you choose another audio emphasis (other than "EFFECT OFF"), the adjusted sound effect is lost. To retain the adjusted sound effect for future use, store it in a personal file (see "Making a personal audio emphasis file").

Activating the surround effect

You can enjoy the surround effect.

SURROUND

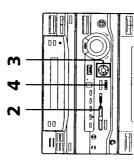


■ Press SURROUND so "SUR [||| ■ || 1] " appears in the display. If you choose other sound effects, the surround effect will be canceled. To retain the effect, store it in a personal file (see "Making a personal audio emphasis file").

audio emphasis file Making a personal

- Personal File

ou can create up to five audio files. Before play a favorite tape, CD, or radio program. memory. Later call up an audio pattern to equalizer) and store them in the unit's patterns (surround effect and graphic You can create personal files of audio operation, first select the basic audio emphasis you want for your sound.



Create the sound effect you want by surround effect (see "Adjusting the using the graphic equalizer and audio emphasis").

A personal file number appears in the Press P FILE MEMORY. display.

2

LBT-D290/D590/G3300/XB3/XB3K/XB4/XB4K

.BT-D690/XB600/XB6/XB6K MENORY 5 8 3**7))))**

number (P FILE) where you want to Press GEQ ◆/◆ to select the file store the sound effect. m

4 Press ENTER.

The adjusted sound effects are stored under the selected file number. Any settings previously stored at this memory location are erased and replaced by the new settings.

To call up the personal file

1 Press GEQ ◆/◆ (or MUSIC MENU ◆/◆ on the remote) repeatedly to display the last selected personal file.

2 Press GEQ ◆/◆ (or MUSIC MENU ◆/◆ on the remote) repeatedly to select the desired personal file.

3 Press ENTER.

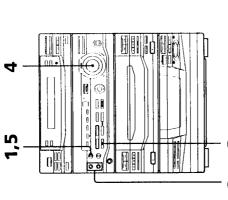
You don't need to press ENTER when you use the remote.

along: Karaoke

Other Features

Singing

tape by turning down the singer's voice. You need to connect an optional microphone. You can sing along with any stereo CD or



Turn MIC LEVEL to MIN to turn down the microphone level. Connect an optional microphone to When you use two microphones at the same time, connect the other one to the the MIC (MIC 1*) jack. MIC 2* jack.

(* LBT-XB3K/XB4K/XB6K only)

KARAOKE PON → MPX R → MPX L ""\" appears in the display when the Each time you press this button, the repeatedly to obtain the desired — EFFECT OFF (ON) ← Press KARAOKE PON/MPX display changes as follows: karaoke effect.

karaoke mode is activated.

To	Select
Reduce the singer's	KARAOKE PON
voice on a CD or tape	
Reduce the right	MPX R
channel on a multiplex	
CD or tape.	
Reduce the left channel	MPX L
on a multiplex CD or	
tape.	

Start playing the music and adjust the volume. 4

Turn MIC LEVEL to adjust the microphone volume. 'n

When you are done

Turn MIC LEVEL to MIN and disconnect the microphone from MIC, then press KARAOKE PON/MPX repeatedly until """ disappears from the display.

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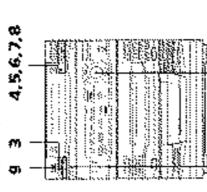
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Timer-recording radio programs

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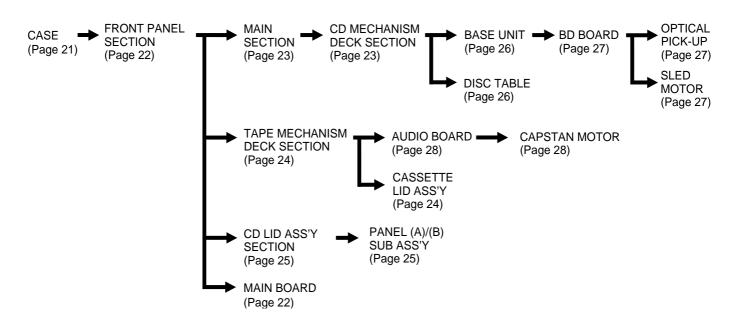
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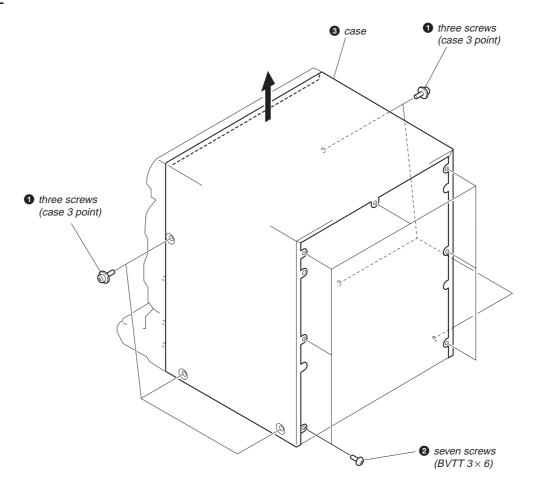
SECTION 2 DISASSEMBLY

• This set can be disassembled in the order shown below.

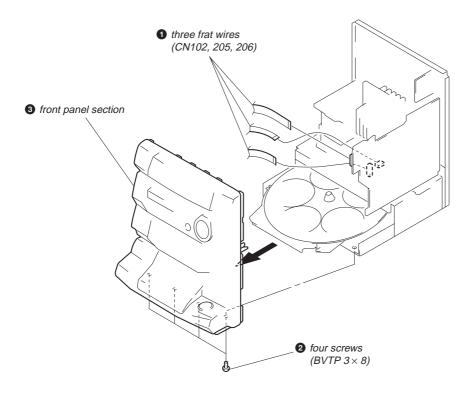


Note: Follow the disassembly procedure in the numerical order given.

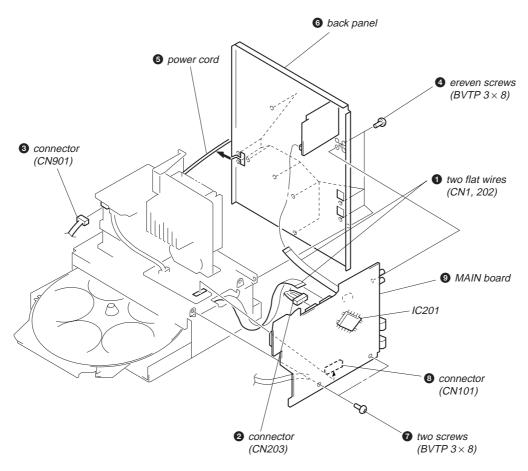
CASE



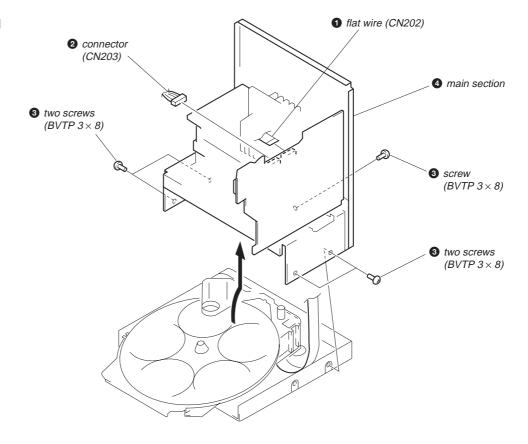
FRONT PANEL SECTION



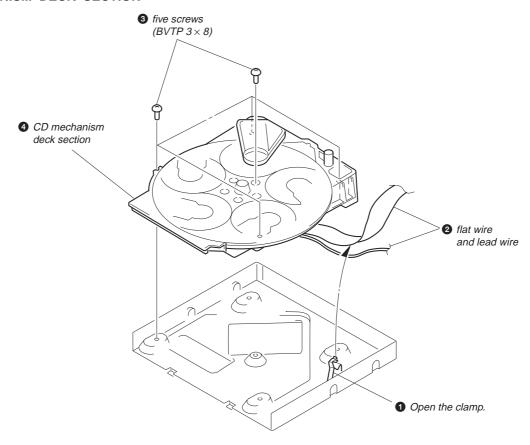
MAIN BOARD



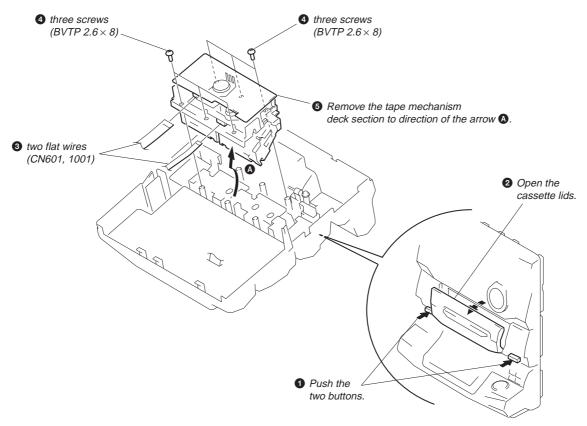
MAIN SECTION



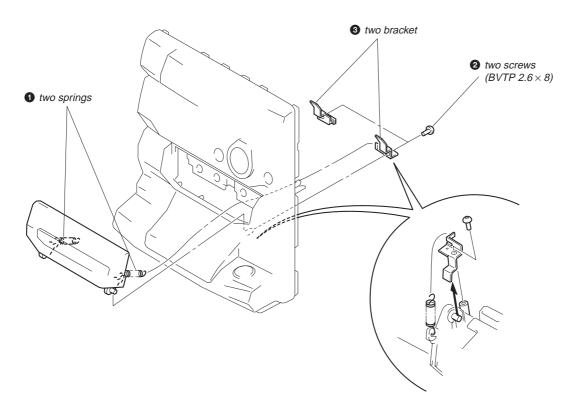
CD MECHANISM DECK SECTION

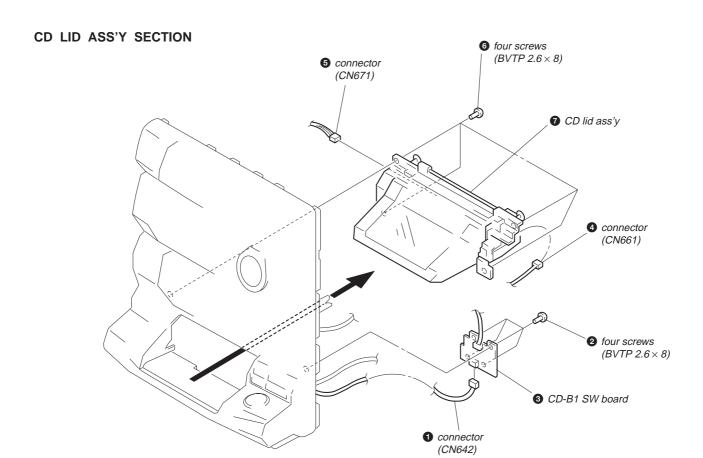


TAPE MECHANISM DECK SECTION

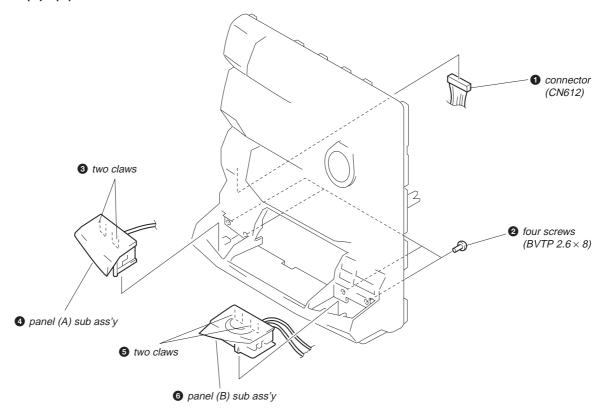


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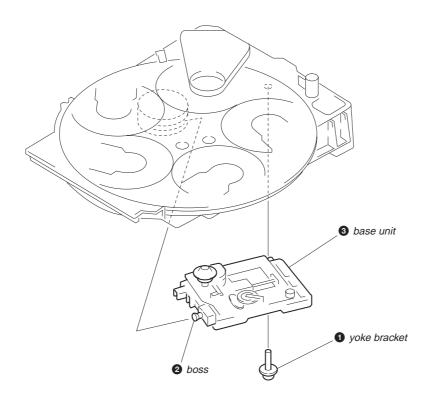








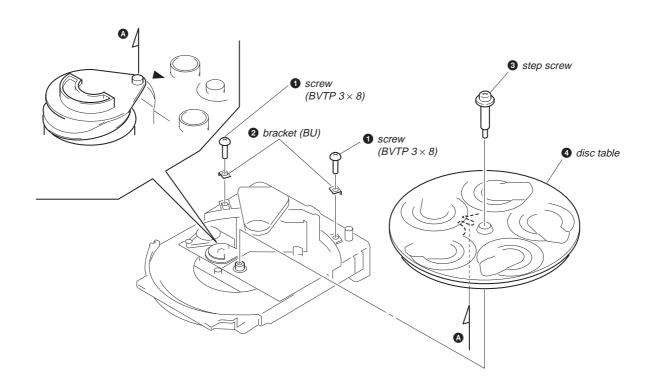
BASE UNIT



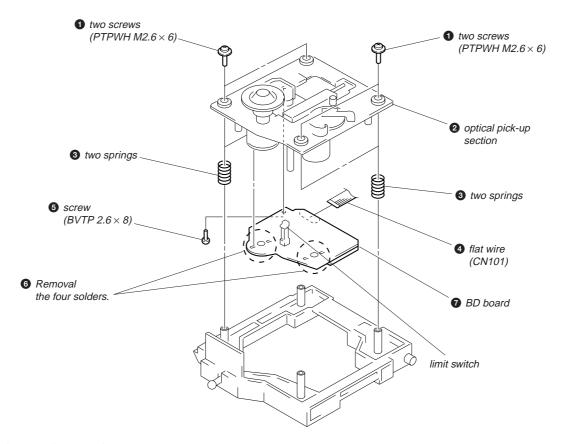
DISC TABLE

Note:

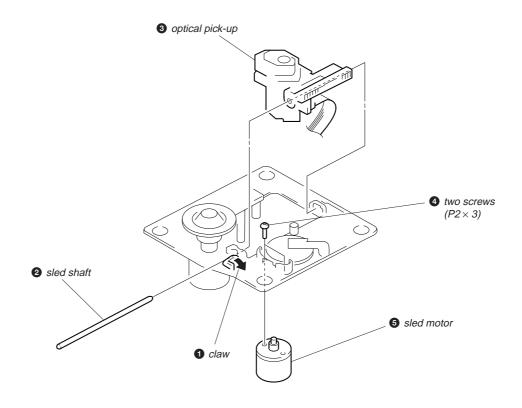
When the disc table is installed, adjust the positions of roller cam and mark ▶ as shown in the figure, then set to the groove of disc table.



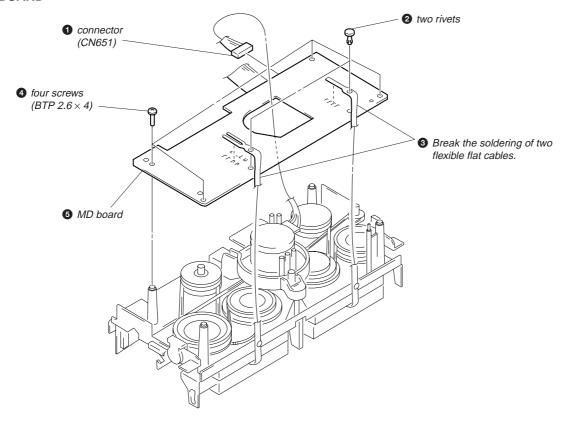
BD BOARD



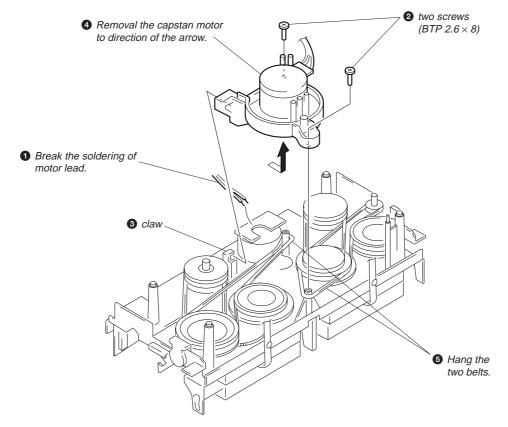
OPTICAL PICK-UP, SLED MOTOR



AUDIO BOARD



CAPSTAN MOTOR



SECTION 3 TEST MODE

[MC Cold Reset]

 The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

- 1. Press three buttons GROOVE, ENTER/NEXT, and DISC 1 simultaneously.
- The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[CD Delivery Mode]

• This mode moves the pickup to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

- 1. Press POWER button to turn the set ON.
- Press PLAY MODE button and POWER button simultaneously.
- A message "LOCK" is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

[MC Hot Reset]

 This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

- 1. Press three buttons GROOVE, ENTER/NEXT, and DISC 2 simultaneously.
- The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[Sled Servo Mode]

 This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pickup.

Procedure:

- 1. Select the function "CD".
- 2. Press three buttons GROOVE, ENTER/NEXT, and FLASH simultaneously.
- 3. The Sled Servo mode is selected, if "CD" is blanking on the fluorescent indicator tube.
- 4. With the CD in stop status, press ▶ button in CD section to move the pickup to outside track, or ◀ button to inside track.
- 5. To exit from this mode, perform as follows:
 - 1) Move the pickup to the most inside track.
 - 2) Press three buttons in the same manner as step 2.

Note:

- Always move the pickup to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

[Change-over of FUNCTION Name]

 The FUNCTION name of external input terminal can be changed over to VIDEO or MD. With the FUNCTION selected to "MD", about 5dB mute is applied to the input gain.

Procedure:

- 1. Press POWER button to turn the set OFF.
- 2. Press POWER button together with FUNCTION button, and the power is turned on, the display of fluorescent indicator tube changes to "MD" or "VIDEO" instantaneously, and thus the FUNCTION is changed over.

[Change-over of AM Tuner Step between 9kHz and 10kHz]

 A step of AM channels can be changed over between 9kHz and 10kHz.

Procedure:

- 1. Press POWER button to turn the set ON.
- 2. Select the function "TUNER", and press TUNER/BAND button to select the BAND "AM".
- 3. Press POWER button to turn the set OFF.
- 4. Press ENTER/NEXT and POWER buttons simultaneously, and the display of fluorescent indicator tube changes to "AM 9k STEP" or "AM 10k STEP", and thus the channel step is changed over.

[LED and Fluorescent Indicator Tube All Lit, Key Check Mode]

Procedure:

- 1. Press three buttons GROOVE, ENTER/NEXT, and DISC 3 simultaneously.
- 2. LEDs and fluorescent indicator tube are all turned on.

 Press DISC 2 button, and the key check mode is activated.
- 3. In the key check mode, the fluorescent indicator tube displays "K 1 V0 J0". Each time a button is pressed, "K" value increases. However, once a button is pressed, it is no longer taken into account
 - "J" value increases like 1, 2, 3 ... if rotating JOG knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction
 - "V" value increases like 1, 2, 3 ... if rotating VOLUME knob in "+" derection, or it decreases like 0, 9, 8 ... if rotating in "-" direction
- 4. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[Aging Mode]

This mode can be used for operation check of CD section and tape deck section.

• If an error occurred:

The aging operation stops.

• If no error occurs:

The aging operation continues repeatedly.

- 1. Aging Mode in CD Section
- 1-1. Operating Method of Aging Mode
 - 1. Set discs in DISC 1 and DISC 3 trays.
 - 2. Select the function "CD".
 - 3. Press three buttons GROOVE, ENTER/NEXT, and DISC 5 simultaneously.
 - 4. The aging mode is activated, if a roulette mark on the fluorescent indicator tube is blinking.
 - 5. In the aging mode, the aging is executed in a sequence given in "1-2. Operation during Aging Mode".

The aging continues unless an alarm occurred.

- 6. To exit from the aging mode, press POWER button to turn the set OFF.
- If a button other than buttons In CD section is pressed during aging, the aging in the CD section is finished.
- To execute aging to the tape deck section successively, press button in the deck A.

"AGING" is displayed on the fluorescent indicator tube. (For the aging in tape deck, see "2. Aging Mode in Tape Deck Section".

1-2. Operation during aging Mode

In the aging mode, the program is executed in the following sequence.

- 1. The disc tray turns to select a disc. (For a disc selection sequence, see Section 1-3.)
- 2. TOC of disc is read.
- 3. The pickup accesses to the last track.
- 4. Steps 1 through 3 are repeated.

1-3. Disc Selection Sequence

During the aging mode, discs are selected in the following sequence:

Disc
$$1 \rightarrow \text{Disc } 3$$
 $\uparrow \qquad \downarrow$
Disc $3 \leftarrow \text{Disc } 1$

- 2. Aging Mode in Tape Deck Section
- 2-1. Operating Method of Aging Mode
 - Load a commercially available 10-minute tape into the decks A and B respectively.

(If a 10-minute tape is not available, another tape may be used but a cycle time will be longer.)

- 2. Select the function "TAPE".
- Rewind tapes in advance by pressing button respectively on decks A and B.
- 4. Press three buttons GROOVE, ENTER/NEXT, and DISC 5 simultaneously.
- 5. Press button on deck A. (This button triggers the aging mode.)
- The aging mode is activated if "AGING A" is displayed on the fluorescent indicator tube.
- In the aging mode, the aging is executed in a sequence given in "2-2. Operation during Aging Mode".

The aging continues unless an alarm occurred.

8. To exit from the aging mode, press POWER button to turn the set OFF.

2-2. Operation during Aging Mode

In the aging mode, the program is executed in the following sequence.

- 1. A tape on FWD side is played for one minute.
- 2. PAUSE STOP is made.
- 3. Recording is made for 3 minutes. (For the deck not having the record function, the play is executed.)
- 4. FF is executed up to the end of tape.
- A tape is reversed, and the tape on REV side is played for one minute.
- 6. PAUSE STOP is made.
- 7. Recording is made for 3 minutes. (For the deck not having the record function, the play is executed.)
- 8. FF is executed up to the end of tape.
- 9. Steps 1 through 8 are executed for the other deck.
- 10. Steps 1 through 9 are repeated unless an alarm occurred.

2-3. Deck Selection Sequence

During the aging mode, decks are selected in the following sequence:

$$\begin{array}{ccc} \operatorname{Deck} A & (\operatorname{FWD}) \to \operatorname{Deck} A & (\operatorname{REV}) \\ \uparrow & & \downarrow \\ \operatorname{Deck} B & (\operatorname{REV}) \leftarrow \operatorname{Deck} B & (\operatorname{FWD}) \end{array}$$

SECTION 4 MECHANISM ADJUSTMENTS

PRECAUTION

 Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head pinch roller erase head rubber belts capstan idlers

- Demagnetize the record/playback head with a head demagnetizer
- 3. Do not use a magnetized screwdriver for the adjustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.
- 5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
Forward	CQ-102C	36 to 61g·cm (0.50 – 0.84 oz·inch)
Forward Back Tension	CQ-102C	2 to 6g·cm (0.026 – 0.082 oz·inch)
Reverse	CQ-102RC	36 to 61g⋅cm (0.50 – 0.84 oz⋅inch)
Reverse Back Tension	CQ-102RC	2 to 6g·cm (0.026 – 0.082 oz·inch)
FF, REW	CQ-201B	61 to 143g·cm (0.85 – 1.98 oz·inch)

• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
Forward	CQ-403A	more than 100g (3.52 oz)
Reverse	CQ-403R	more than 100g (3.52 oz)

SECTION 5 ELECTRICAL ADJUSTMENTS

DECK SECTION

0dB=0.775V

- Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
- 2. Do not use a magnetized screwdriver for the adjustments.
- After the adjustments, apply suitable locking compound to the parts adjust.
- The adjustments should be performed with the rated power supply voltage unless otherwise noted.
- The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
- 6. The adjustments should be performed for both L-CH and R-ch.
- Switches and controls should be set as follows unless otherwise specified.
- 8. Set to test mode. (Press key switch same time GROOVE ENTER/NEXT and DISC 4 button.)

Test Tape

Tape	Signal	Used for
P-4-A100	10kHz, -10 dB	Azimuth Adjustment
WS-48B	3kHz, 0dB	Tape Speed Adjustment
P-4-L300	315Hz 0dB	Level Adjustment

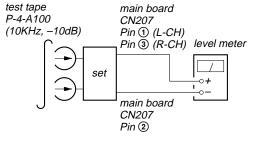
Record/Playback Head Azimuth Adjustment

DECK A DECK B

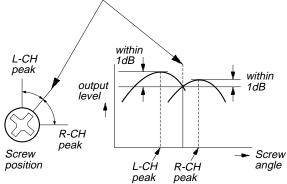
Note: Perform this adjustments for both decks

Procedure:

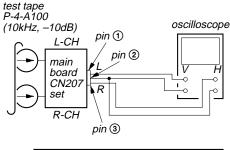
1. Mode: Playback (FWD)

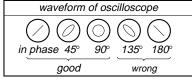


Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



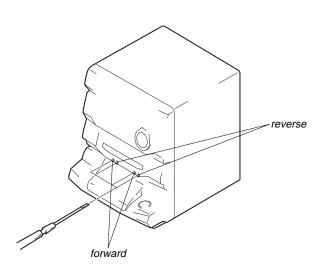
3. Mode: Playback (FWD)





- 4. Repeat steps 1 to 3 in playback (REV) mode.
- After the adjustments, apply suitable locking compound to the pats adjusted.

Adjustment Location: Record/Playback Head (Deck A and B) and main board.



Tape Speed Adjustment DECK A

Note: Start the Tape Speed adjustment as below after setting to the test mode.

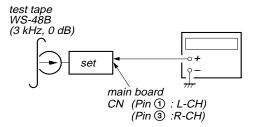
In the test mode, the tape speed is high during pressing the H. SPEED DUBB button.

Procedure:

- 1. Turn the power switch on.
- 2. Press the GROOVE button, ENTER/NEXT button and DISC 4 button simultaneously.

To exit from the test mode, press the POWER button.

Mode: Playback (FWD)

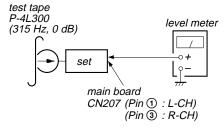


- Insert the WS-48B into the deck A and the blank tape into the deck B.
- 2. Press the REC button and button on the deck B. Then the deck B is at recording mode.
- 3. Set the deck A to playback mode.
- 4. Keep pressing the H. SPEED DUBB button in playback mode. Then at HIGH speed mode.
- 5. Adjust RV652 on the AUDIO board do that frequency counter reads $6{,}000 \pm 60$ Hz.
- 6. Take off the H. SPEED DUBB button. Then at NORMAL speed mode.
- 7. Adjust RV651 on the AUDIO board so that frequency counter reads 3,000 $^{+30}_{-10}$ Hz.
- 8. Frequency difference between deck A and deck B the beginning of the tape should be within \pm 1.5%.

Adjustment Location: AUDIO board

Playback level Adjustment DECK A DECK B Procedure:

Mode: Playback (FWD)



Deck A is RV311 (L-CH) and RV411 (R-CH), Deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level:

CN207 PB level: 301.5 to 338.3 mV (-8.2 to -7.2 dB) level difference between the channels: within ± 0.5 dB

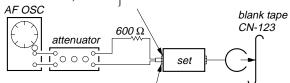
Adjustment Location: AUDIO and main boards

Record bias Current Adjustment

DECK B Procedure:

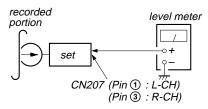
1. Mode: record

Pin 6 (L-CH) of IC1501 on the main board. Pin (L-CH) of IC1501 on the main board. 1) 315 Hz 50 mV (-23.8 dB) 2) 10 kHz



Pin ② (GND) of ICN207 on the main board.

2. Mode: Playback



Confirm playback the signal recorded in step 1 become adjustable limits as follows.

If these levels do not adjustable limits, adjustment the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 1 and 2.

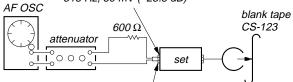
Adjustable limits: Playback output of 315 Hz to playback output of 10kHz: 0±0.5 dB

Adjustment Location: AUDIO and main boards

Record Level Adjustment DECK B **Procedure:**

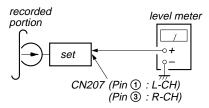
1. Mode: record

Pin 6 (L-CH) of IC1501 on the main board. Pin (R-CH) of IC1501 on the main board. 315 Hz, 50 mV (-23.8 dB)



Pin ② (GND) of CN207 on the main board.

2. Mode: Playback



Confirm playback the signal recorded in step 1 become adjustable limits as follows.

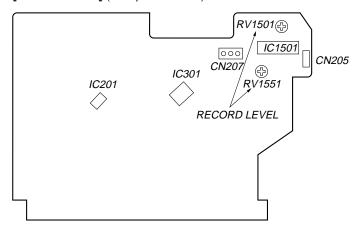
If these levels do not adjustable limits, adjustment the RV1501 (L-CH) and RV1551 (R-CH) on the main board to repeat steps 1 and 2.

Adjustable limits:

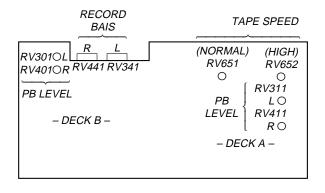
CN207 PB level: 47.3 to 53.1 mV (-24.3 to -23.3 dB)

Adjustment Location: main board

[MAIN BOARD] (Component Side)



[AUDIO BOARD] (Conductor Side)



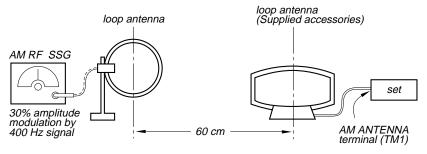
TUNER SECTION

0dB=1µV

Note: As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

AM Section Adjustment

Setting:



Field strength dB (μ V/m) =SSG output level dB (μ V/m) –26 dB.

AM Tuned Level Adjustment

Band: AM or MW

Procedure:

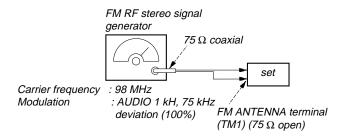
- Set the output of SSG so that the input level of the set becomes 55 dB.
- Tune the set to 1,050 kHz (US, CND models), 999 kHz (other models)
- 3. Adjust RV41 (AEP, UK models), RV42 (other models) to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: TCB board

FM Section Adjustment

Note: This adjustment should be performed after the AM Tuned Level Adjustment due to the same adjustment element.

Setting:



FM Tuned Level Adjustment

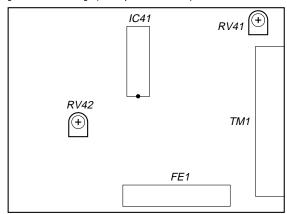
Band: FM **Procedure:**

- 1. Supply a $25 dB\mu$ 98 MHz signal from the ANTENNA terminal.
- 2. Tune the set to 98 MHz.
- If the TUNED indicator does not light, adjust RV42 (AEP, UK models), RV41 (other models) to the point (moment) when the TUNED indicator will change from going off to going on.

Adjustment Location: TCB board

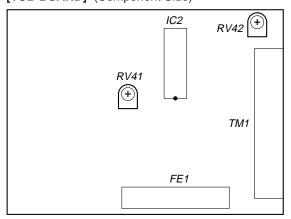
Adjustment Location: AEP, UK model

[TCB BOARD] (Component Side)



Other model

[TCB BOARD] (Component Side)



Abbreviation

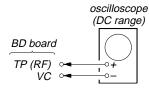
CND: Canadian model

CD SECTION

Note:

- CD Block is basically designed to operate without adjustment.
 Therefore, check each item in order given.
- 2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
- 3. Use an oscilloscope with more than 10M impedance.
- Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.
- 5. Adjust the focus bias adjustment when optical block is replaced.

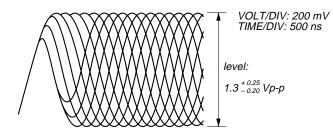
Focus Bias check



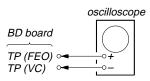
Procedure:

- Connect oscilloscope to test point TP (RF). (GND terminal: VC)
- 2. Turned Power switch on.
- 3. Put disc (YEDS-18) in and playback.
- 4. Confirm that the shape "⋄" can be clearly distinguished at the center of the waveform and check the RF signal level.

RF signal



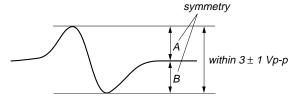
S Curve Check



Procedure:

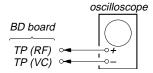
- 1. Connect oscilloscope to test point TP (FEO).
- 2. Connect between test point TP (FOK) and GND by lead wire.
- 3. Turn Power switch on.
- 4. Put disc (YEDS-18) in and turned Power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
- Check the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3±1 Vp-p.

S-curve waveform



- 6. After check, remove the lead wire connected in step 2.
- **Note:** Try to measure several times to make sure than the ratio of A: B or B: A is more than 10: 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check



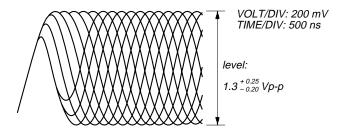
Procedure:

- 1. Connect oscilloscope to test point TP (RF) on BD board.
- 2. Turned Power switch on.
- 3. Put disc (YEDS-18) in and playback.
- Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

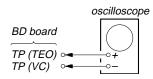
Note:

Clear RF signal waveform means that the shape "\$\infty\$" can be clearly distinguished at the center of the waveform.

RF signal



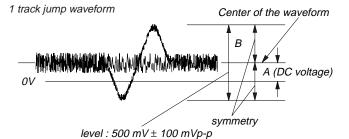
E-F Balance (1 Track Jump) check (Without remote commander)



Procedure:

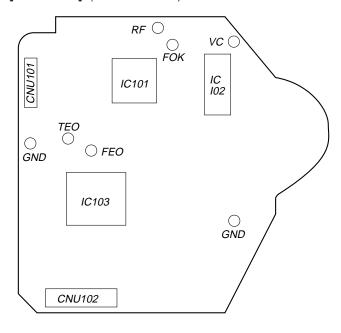
- 1. Connect oscilloscope to test point TP (TEO) on BD board.
- 2. Turned Power switch on.
- 3. Put disc (YEDS-18) in to play the number five track.
- 4. Press the "**II** (Pause)" button. (Becomes the 1 track jump mode)
- Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform. Confirm the following:

$$\frac{A-B}{2(A+B)} \times 100 = \pm 7 (\%)$$



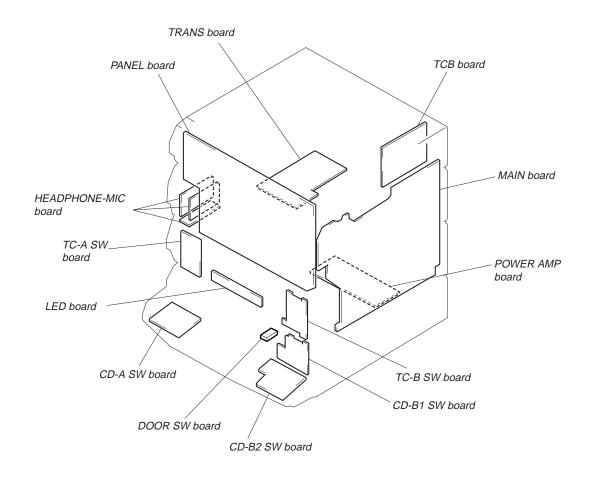
Adjustment Location:

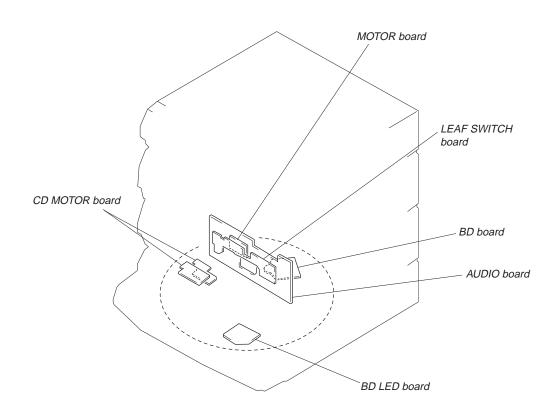
[BD BOARD] (Conductor Side)



SECTION 6 DIAGRAMS

• Circuit Board Location

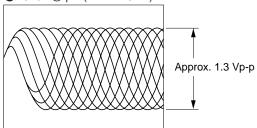




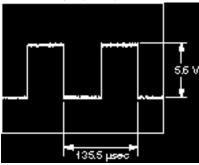
Waveforms

- BD Section-

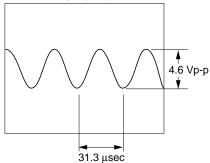




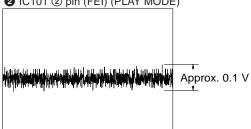
6 IC103 @ pin (RFCK)



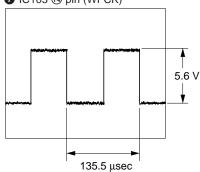
1 IC301 1 pin (XT2)



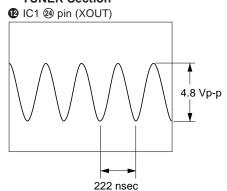
2 IC101 2 pin (FEI) (PLAY MODE)



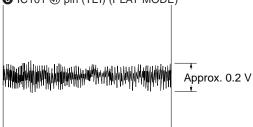
7 IC103 1 pin (WFCK)

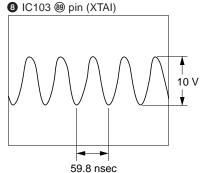


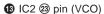
-TUNER Section-

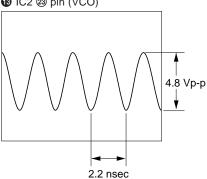


3 IC101 @ pin (TEI) (PLAY MODE)

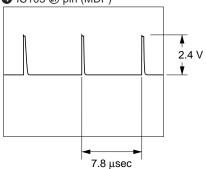




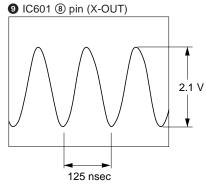




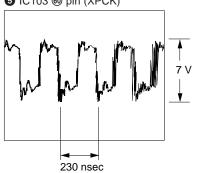
4 IC103 @ pin (MDP)



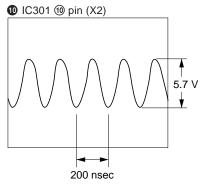
- PANEL Section-



5 IC103 **6** pin (XPCK)



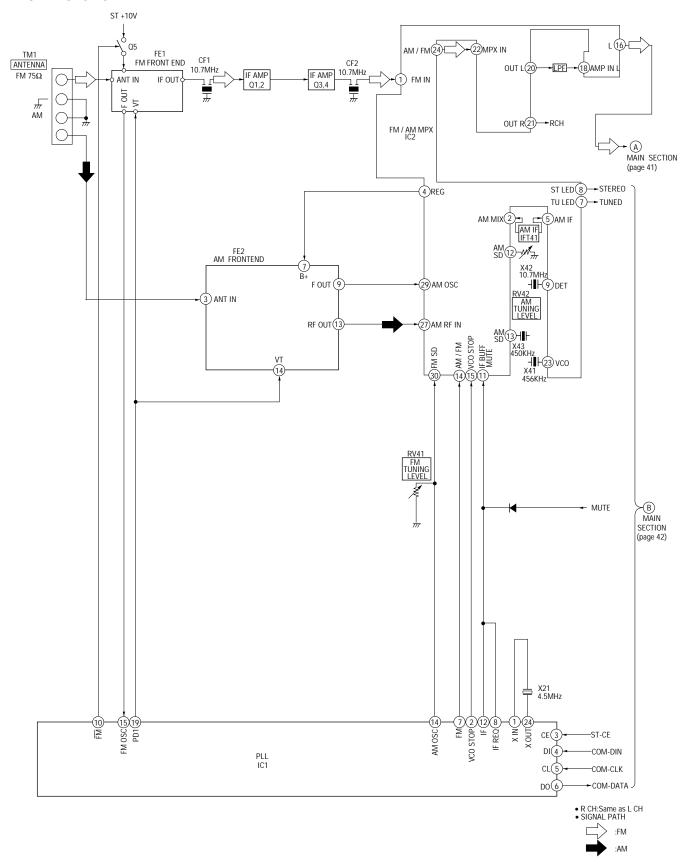
- MAIN Section-



-38 -

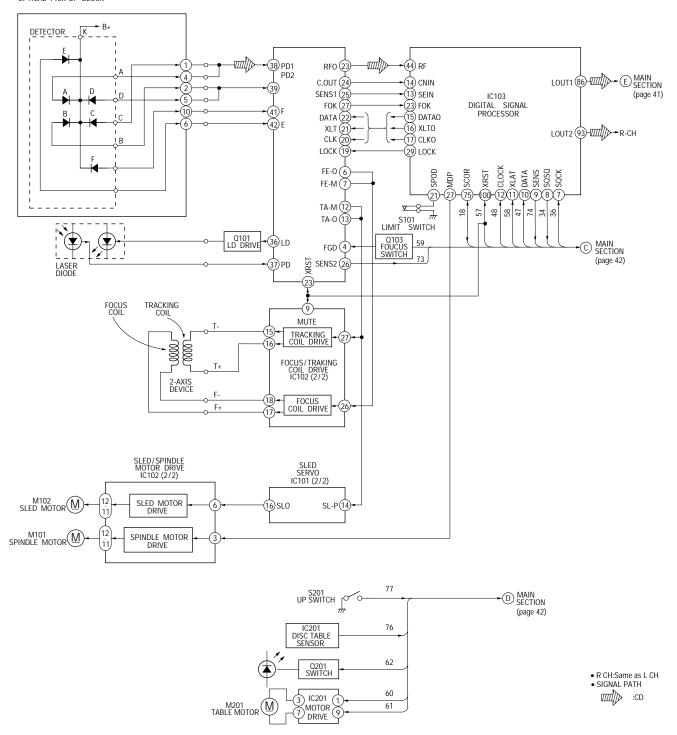
6-1. BLOCK DIAGRAMS

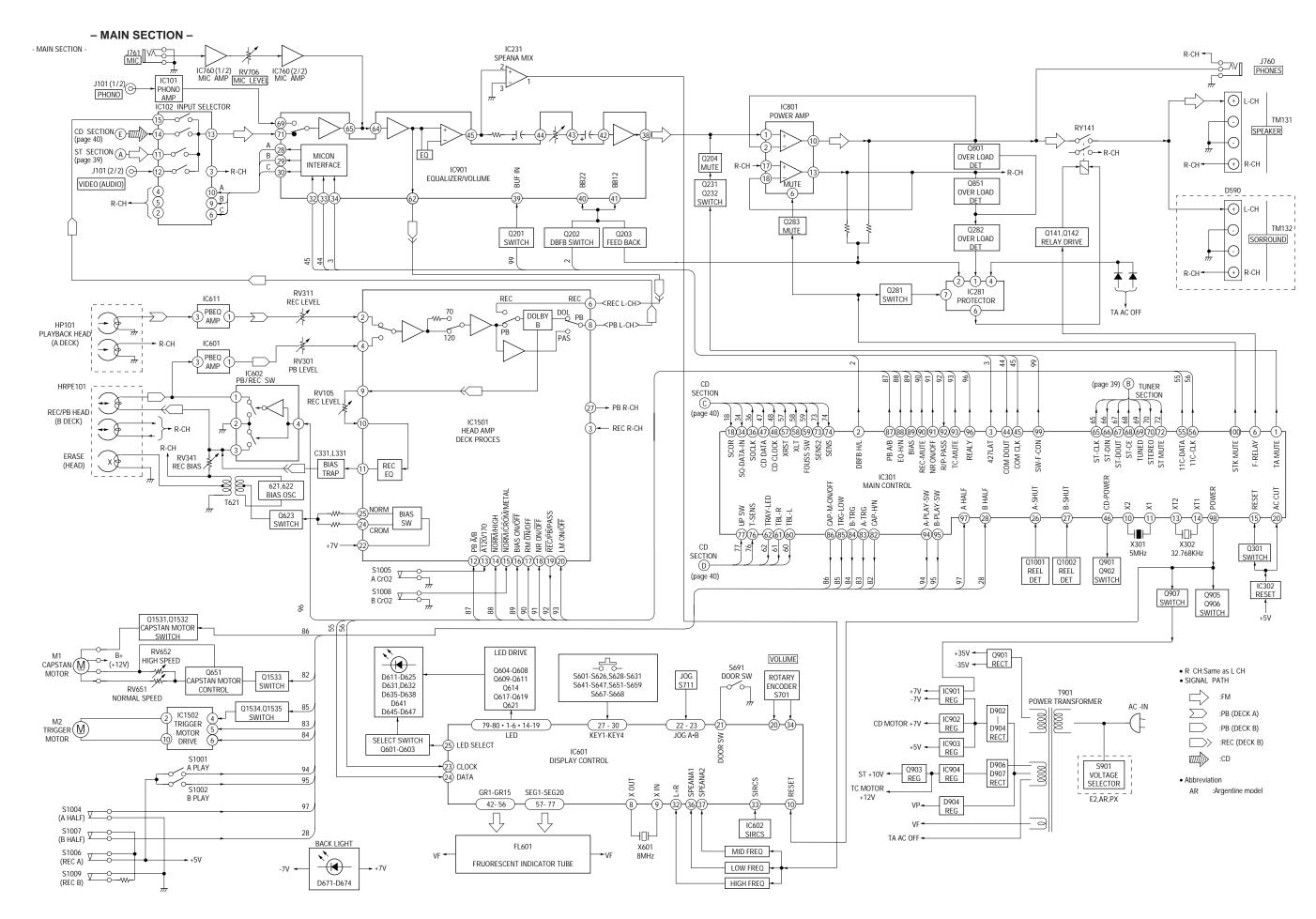
-TUNER SECTION -



- CD SECTION -

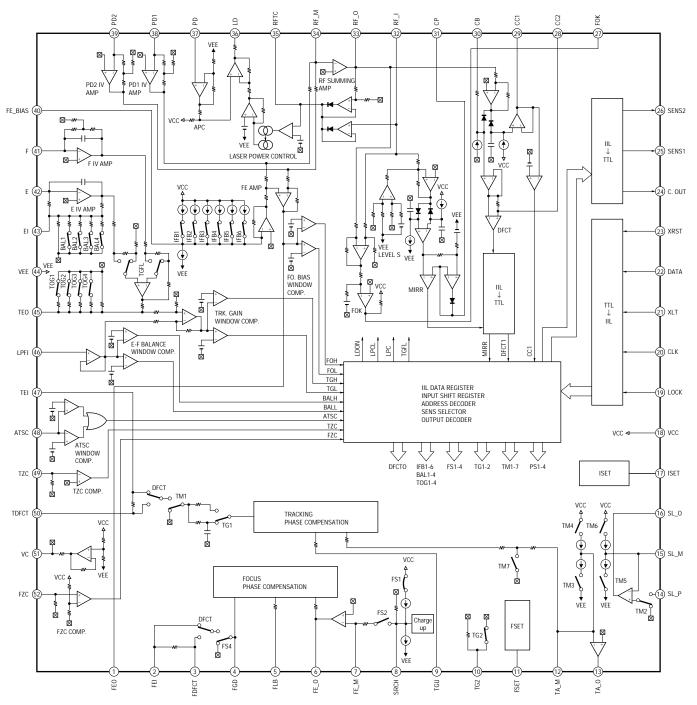
- CD SECTION -OPTICAL PICK-UP BLOCK



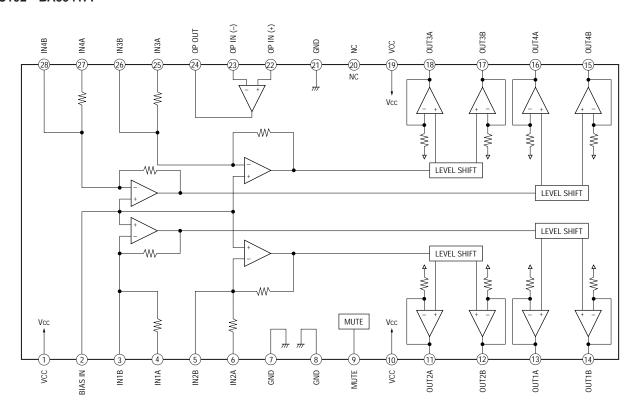


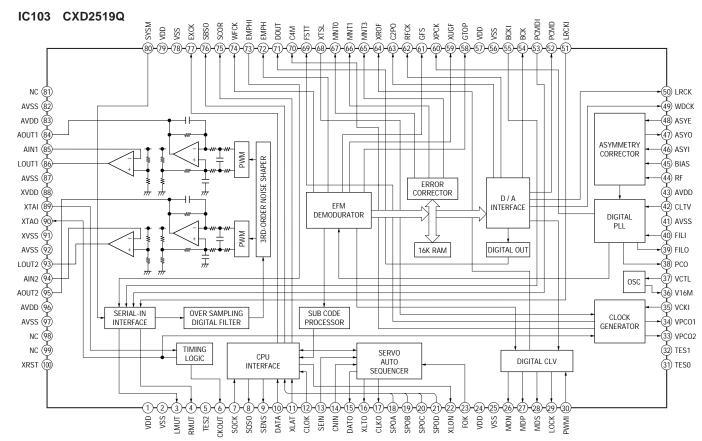
• IC Block Diagrams -BD Section -

IC101 CXA1992AR

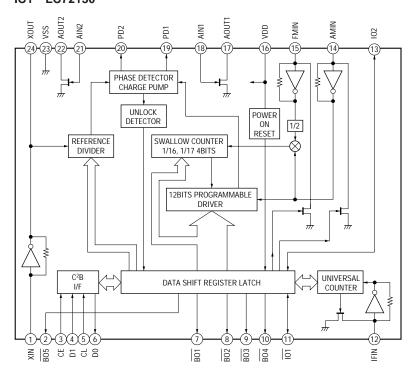


IC102 BA5941FP

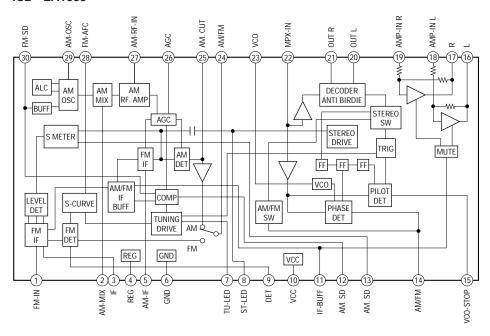




-TUNER section - IC1 LC72130



IC2 LA1835



6-16. IC PIN FUNCTION DESCRIPTION MAIN BOARD IC301 µPD780018Y (MAIN CONTROL)

Pin No.	Pin Name	I/O	Function		
1	TA-MUTE	О	Line mute signal output		
2	DBFB-H/L	O	DBFB H/L select signal output		
3	427-LT	O	Latch signal output for IC201 (62427)		
4	KCON-LT	О	Not used		
5	KCON-ON/OFF	O			
6	F-RELAY	О	Front speaker relay control output		
7	R-RELAY	О	Not used		
8	PL-RELAY	O	1.00 4.00		
9	TEST	I	Connected ground		
10	X2	О	X'tal (5MHz)		
11	X1	I			
12	VDD	_	Power supply (+5V)		
13	XT2	O	X'tal (32.768 KHz)		
14	XT1	I	17 (11 (021) 00 11111)		
15	RESET	I	Reset signal input		
16	INT/IN	I	Connected ground		
17	INT/IN/OUT	I			
18	SCOR	О	Subcode data request signal output		
19	SOFT-TEST	О	Software test port		
20	AC-CUT	I	Back up signal input		
21	RDS-INT	I	Not used		
22	RDS-DATA	I			
23	VDD	_	Power supply (+5V)		
24	AVDD	I	Analog reference voltage input		
25	ADJ	I	CD adjust point port		
26	A-SHUT	I	A Deck reel pulse detector		
27	B-SHUT	I	B Deck reel pulse detector		
28	B-HALF	I	Half detector signal input		
29	CLK-CHECK	I	Connected ground		
30	SPEC-IN	I	Version select signal input		
31	ADJ 2	I	Connected ground		
32	DEMO-CHANGE	I	DEMO H/L select signal input		
33	AVss	_	Ground		
34	SQ-DATA-IN	O	Subcode Q data input		
35	_	_	Not used		
36	SQ-CLK	О	Sub code Q data clock input		
37	SW-ON/OFF	О	Not used		
38, 39	FUNC 1, 2	I	Connected ground		
40	Vss	_	Ground		
41	VOL-LAT	О	Not used		
42	PL-LAT	О			
43	COM-DIN	I	Connected ground		
44	COM-DOUT	О	Common serial data output		

Pin No.	Pin Name	I/O	Function
45	COM-CLK	О	Common serial clock output
46	CD-POWER	О	CD power on signal output
47	CD-DATA	О	CD data output
48	CD-CLOK	О	CD clock output
49	MSM-CMD	О	Not used
50	MSM-BUSY	I	Connected ground
51	MSM-LT	О	
52	MSM-NAR	I	Not used
53	MSM-CH	О	
54	INPUT-CHANGE	О	Not used
55	11C-DATA	О	Data output for IC601
56	11C-CLK	О	Clock output for IC601
57	XRST	О	CD reset signal output
58	XLT	О	CD latch signal output
59	FOUCUS-SW	О	Not used
60	TBL-L	О	Table motor control output
61	TBL-R	О	Tuble Motor Control output
62	TRAY-LED	О	CD tray LED ON/OFF output
63	LOAD-OUT	О	Not used
64	LOAD-IN	O	1.00 4004
65	ST-CLK	О	Tuner clock output
66	ST-DIN	I	Tuner data input
67	ST-DOUT	О	Tuner data output
68	ST-CE	О	Tuner chip enable output
69	TUNED	I	Tuned detection for tuner
70	STEREO	I	Stereo detection for tuner
71	Vss		Ground
72	ST-MUTE	О	Tuner mute signal output
73	SENS2	I	BD Condition signal input
74	SENS	I	DD Condition signal input
75	DISC-SENS	I	Not used
76	T-SENS	I	CD table detection signal input
77	UP-SW	I	Up SW (S201) signal input
78	ENC 3	I	
79	ENC 2	I	Not used
80	ENC 1	I	
81	OUT-OPEN	I	Not used
82	CAP-M-H/N	О	Capstan motor H/N speed select signal output
83	B-TRG	О	Trigger motor control output
84	A-TRG	О	Trigger motor control output
85	TRG-LOW	О	Trigger motor control output
86	CAP-M-ON/OFF	О	Capstan motor ON/OFF signal output
87	PB-A/B	О	PB Deck A/Deck B select output

Pin No.	Pin Name	I/O	Function			
88	EQ-H/N	О	Equalizer H/N select output			
89	BIAS	О	Bias ON/OFF signal output			
90	REC-MUTE	О	REC mute ON/OFF selection output			
91	NR-ON/OFF	О	NR ON/OFF signal output			
92	R/P-PASS	I	REC/PB/PASS selection output			
93	TC-MUTE	О	TC mute ON/OFF selection output			
94	A-PLAY-SW	I	Deck A play detect			
95	B-PLAY-SW	I	Deck B play detect			
96	TC-RELAY	О	REC/PB head selection output for IC602			
97	A-HALF	I	Deck A cassette detect			
98	POWER	О	POWER ON/OFF signal output			
99	SW-F-CHG	О	Super woofer mode signal output			
100	STK-MUTE	О	Power amplifier ON/OFF signal output			

PANEL BOARD IC601 TMP87CH74 (DISPLAY CONTROL)

Pin No.	Pin Name	I/O	Function	
1-6	LED3-LED8	О	LED driver output	
7	VSS	_	Ground	
8	X-OUT	О	X'tall (8MHz)	
9	X-IN	I	A tan (GMIL)	
10	RESET	I	Reset signal input from main controller	
11	LED 9	О		
12	LED10	О	Connected ground	
13	TEST	I		
14-19	LED11-LED19	О	LED driver output	
20	VOL-A	I	Rotary encoder (S701 VOLUME) pulse input	
21	DOOR SW	I	DOOR SW (S651) ON/OFF signal input	
22	JOG-A	I	Rotaly encoder (S711 AMS) pulse input	
23	CLOCK	I	Serial clock input from main controller	
24	DATA	I	Serial data input from main controller	
25	LED SELECT	О	LED select signal output	
26	MODEL	I	Version select signal input	
27-30	KEY1-KEY4	I	Key input	
31	SPEANA-3	I	Connected ground	
32	L+R	I	Spectrum analyzer (high frequency) input	
33	SIRCS	I	Remote commander signal input	
34	VOL-B	I	Rotary encoder (S701 VOLUME) pulse input	
35	JOG-B	I	Rotary encoder (S711 AMS) pulse input	
36	SPEANA-1	I	Spectrum analyzer (Low frequency) input	
37	SPEANA-2	I	Spectrum analyzer (Middle frequency) input	
38	VASS	_	Ground	
39	VAREF	I	Analog reference voltage input	
40	VDD	-	Power supply (+5V)	
41	_	_	Not used	
42-56	GR1-GR15	О	FL gride signal output	
57-77	SEG1-SEG77	О	FL segment signal output	
78	VKK	-	–30V driving power for FL	
79, 80	LED1-LED2	O	LED driver output	

SECTION 7 EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one
- Color Indication of Appearrance Parts Example:

KNOB, BALANCE (WHITE) . . . (RED)

Parts Color Cabinet's Color

• Abbreviation

AR: Argentine CND: Canadian AUS: Australian MX: Mexican

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

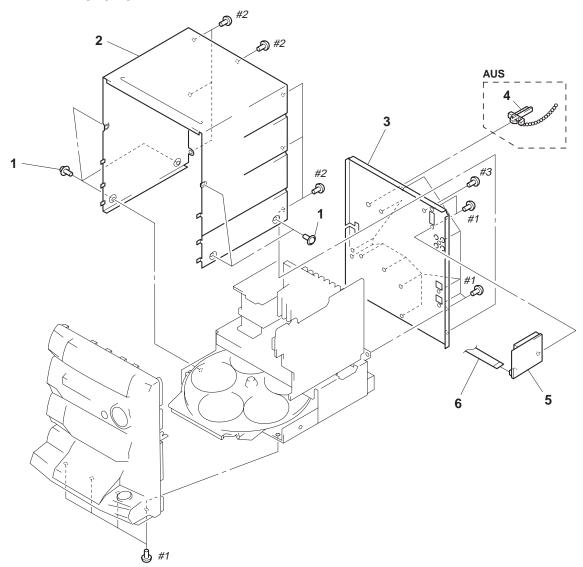
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiquens pour la sécurité.

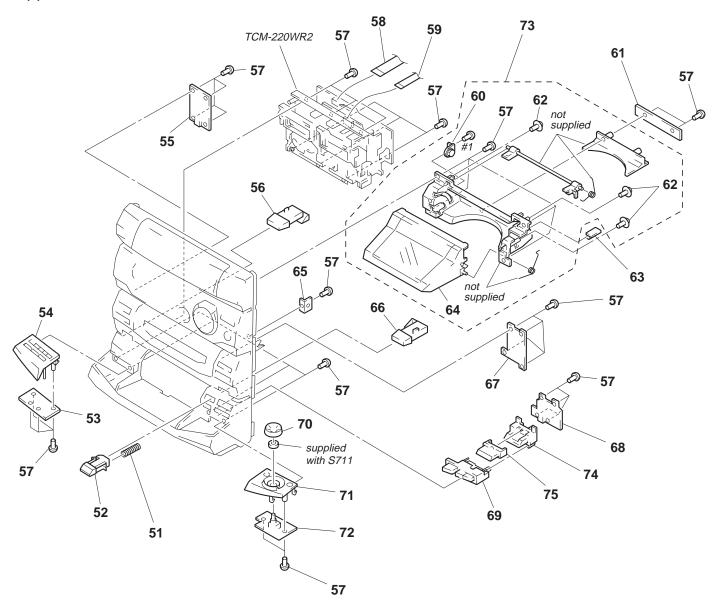
Ne les remplacer que par une pièce portant le neméro spécifié.

(1) CASE, REAR PANEL SECTION

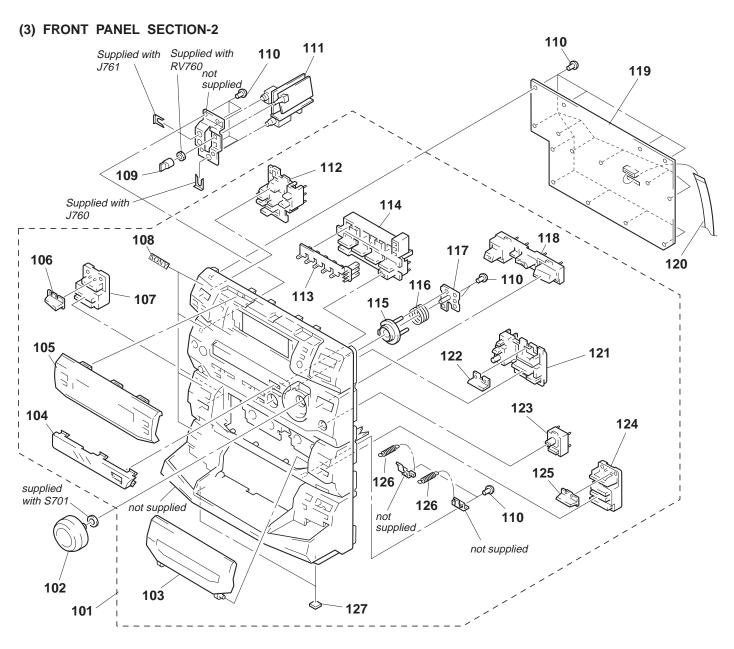


Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1 * 2 * 3 * 3 * 3	4-987-052-11 4-987-043-71 4-987-043-81	SCREW (CASE, 3 POINT) CASE PANEL, BACK (US) PANEL, BACK (CND) PANEL, BACK (EXCEPT US, CND)		4 * 5 * 5 6	A-4303-510-A A-4303-512-A	BAND, PLUG FIXED (AUS) TCB BOARD, COMPLETE (US, CND) TCB BOARD, COMPLETE (EXCEPT US, C WIRE (FLAT TYPE) (13 CORE)	:ND)

(2) FRONT PANEL SECTION-1

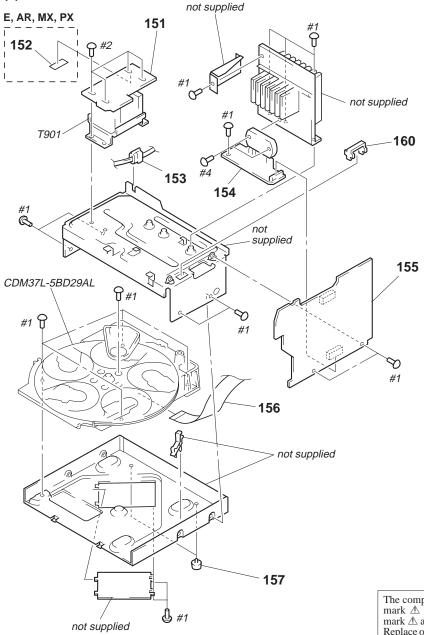


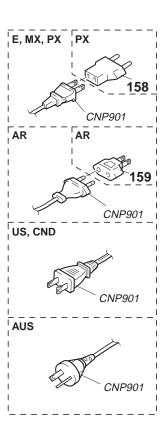
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-987-995-01	SPRING (CD EJECT), COMPRESSION		* 63	1-664-016-11	DOOR SW BOARD	
52	4-987-001-01	BUTTON (EJECT CD)		64	4-987-038-01	LID, DISC	
* 53	1-664-009-11	CD-A SW BOARD		* 65	4-987-933-01	BRACKET (TA)	
54	X-4948-295-1	PANEL (A) SUB ASSY (US, CND)		66	4-987-000-01	BUTTON (EJECT B)	
54	X-4948-348-1	PANEL (A) SUB ASSY (EXCEPT US, CND))	* 67	1-664-013-11	TC-B SW BOARD	
* 55	1-664-012-11	TC-A SW BOARD		* 68		CD-B1 SW BOARD	
56	4-986-999-01	BUTTON (EJECT A)		69	X-4947-969-1	BUTTON (CD STOP) ASSY	
57	4-951-620-01	SCREW (2.6X8), +BVTP		70	4-987-037-01	KNOB (JOG)	
58	1-773-161-11	WIRE (FLAT TYPE) (21 CORE)		71	X-4948-296-1	PANEL (B) SUB ASSY	
59	1-769-949-11	WIRE (FLAT TYPE) (11 CORE)		* 72	1-664-011-11	CD-B2 SW BOARD	
60 * 61 62	3-354-963-01 1-664-017-11	=: ::::: =::		73 74 75		LID ASSY, CD BUTTON (CD, PLAY) INDICATOR (CD)	
02	4-937-377-01	3CREW PIP WH (2.0x6) (DIA. 10)		75	4-907-014-01	INDICATOR (CD)	



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	A-4384-413-A	PANEL ASSY, FRONT (US, CND)		114	X-4947-964-1	BUTTON (SOUND) ASSY	
101	A-4384-414-A	PANEL ASSY, FRONT (EXCEPT US, CND)		115	4-986-990-01	BUTTON (CURSOR)	
102	4-987-036-01	KNOB (VOL)		116	4-978-683-01	SPRING, COMPRESSION	
103	X-4947-961-1	LID ASSY, CASSETTE		* 117	4-987-041-01	COVER, CURSOR	
104	4-987-032-01	DISPLAY (TA)		118	X-4947-963-1	BUTTON (FUNCTION) ASSY	
105	4-987-028-01	DISPLAY (ST)		* 119	A-4392-477-A	PANEL BOARD, COMPLETE	
106	4-987-021-01	INDICATOR (TC A)		120	1-773-051-11	WIRE (FLAT TYPE) (17 CORE)	
107	4-986-997-01	BUTTON (DECK.A)		121	X-4947-962-1	BUTTON (TUNER) ASSY	
108	4-963-404-21	EMBLEM (5-A), SONY		122	4-987-013-01	INDICATOR (TUNER)	
109	4-973-644-01	KNOB (MIC)		123	X-4947-968-1	BUTTON (WOOFER) ASSY	
110	4-951-620-01	SCREW (2.6X8), +BVTP		124	X-4947-967-1	BUTTON (DECK B) ASSY	
* 111	A-4392-452-A	HEADPHONE-MIC BOARD, COMPLETE		125	4-987-022-01	INDICATOR (TC B)	
112	4-986-986-01	BUTTON (POWER)		126	4-987-996-01	SPRING (TC LID), TENSION	
113	4-987-012-01	INDICATOR (TA)		127	4-948-236-01	CUSHION (107)	

(4) CHASSIS SECTION

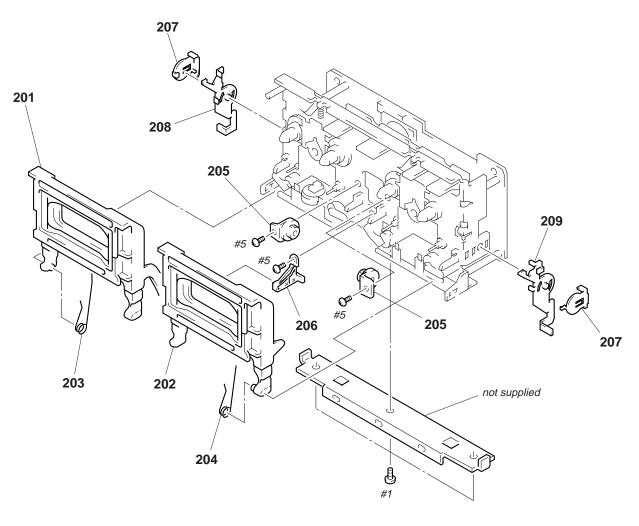




The components identified by mark \triangle or dotted line with mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified. Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

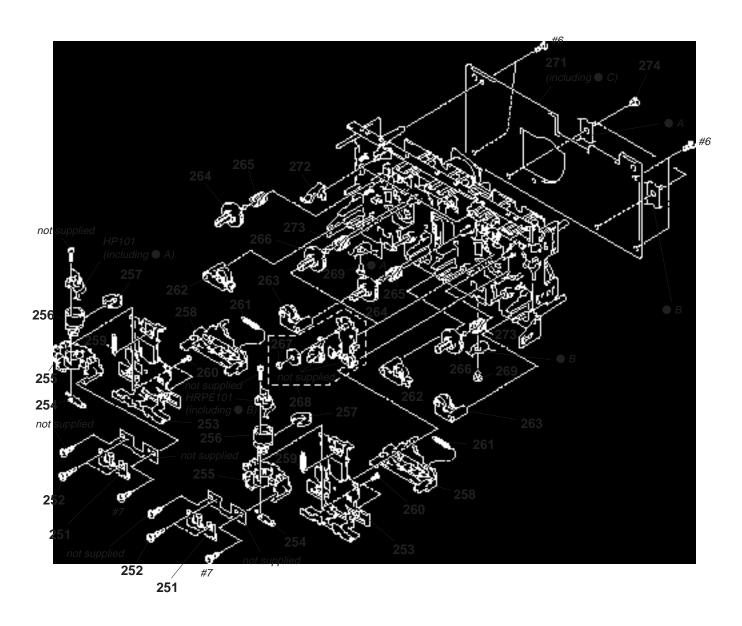
* 151 1-664-014-11 TRANS BOARD 152 3-701-948-20 LABEL (T4A), FUSE (E, AR, MX, PX) 153 3-703-244-00 BUSHING (FBS001), CORD (US, CND) 154 4-966-266-01 BUSHING (S) (FBS002), CORD (EXCEPT US, CND) 155 A-4392-442-A POWER AMP BOARD, COMPLETE (US, CND) 156 1-777-868-11 WIRE (FLAT TYPE) (19 CORE) 157 X-4941-228-1 FOOT (F22125H-M) 157 X-4941-228-1 FOOT (F22125H-M) 158 1-569-007-11 ADAPTOR, CONVERSION 2P (PX) 158 1-569-008-11 ADAPTOR, CONVERSION 2P (AR) 159 1-569-008-11 ADAPTOR, CONVERSION 2P (AR) 150 4-988-533-11 HOLDER, PCB 150 4-988-533-11 HOLDER, PCB 150 4-4392-440-A POWER AMP BOARD, COMPLETE (US, CND) 150 1-575-042-21 CORD, POWER (US, CND) 150 1-777-868-11 WIRE (FLAT TYPE) (19 CORE) 157 X-4941-228-1 FOOT (F22125H-M) 158 1-569-007-11 ADAPTOR, CONVERSION 2P (PX) 158 1-569-008-11 ADAPTOR, CONVERSION 2P (AR) 159 1-569-008-11 ADAPTOR, CONVERSION 2P (AR) 159 1-569-008-11 ADAPTOR, CONVERSION 2P (PX) 150 4-988-533-11 HOLDER, PCB 150 4-988-533-11 HOLDER, PCB 151 40 4-988-533-11 HOLDER, PCB 152 40 4-988-533-11 HOLDER, PCB 153 4-4392-440-A POWER AMP BOARD, COMPLETE (US, CND) 155 4-4392-440-A POWER AMP BOARD, COMPLETE (US, CND) 156 1-777-868-11 WIRE (FLAT TYPE) (19 CORE) 157 X-4941-228-1 FOOT (F22125H-M) 158 1-569-007-11 ADAPTOR, CONVERSION 2P (PX) 159 1-569-008-11 ADAPTOR, CONVERSION 2P (PX) 150 4-988-533-11 HOLDER, PCB 150 4-988-533-11 HOL	Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
153 3-703-244-00 BUSHING (FBS001), CORD (US, CND) 153 4-966-266-01 BUSHING (S) (FBS002), CORD (EXCEPT US, CND) * 154 A-4392-442-A POWER AMP BOARD, COMPLETE (US, CND) * 155 A-4392-474-A MAIN BOARD, COMPLETE (US, CND) * 155 A-4392-479-A MAIN BOARD, COMPLETE (US, CND) * 156 A-4392-709-A MAIN BOARD, COMPLETE (E, AR, MX) * 157 A-4392-709-A MAIN BOARD, COMPLETE (AUS, PX) * 158 A-4392-709-A MAIN BOARD, COMPLETE (AUS, PX) * 159 1-569-008-11 ADAPTOR, CONVERSION 2P (AR) * 160 4-988-533-11 HOLDER, PCB * 16	* 151	1-664-014-11	TRANS BOARD		157	X-4941-228-1	FOOT (F22125H-M)	
153	152	3-701-948-20	LABEL (T4A), FUSE (E, AR, MX, PX)		158 1	1-569-007-11	ADAPTOR, CONVERSION 2P (PX)	
* 154 A-4392-442-A POWER AMP BOARD, COMPLETE (US, CND) * 154 A-4392-460-A POWER AMP BOARD, COMPLETE (EXCEPT US, CND) * 155 A-4392-474-A MAIN BOARD, COMPLETE (US, CND) * 155 A-4392-479-A MAIN BOARD, COMPLETE (E, AR, MX) * 155 A-4392-709-A MAIN BOARD, COMPLETE (AUS, PX) * 156 A-4392-709-A MAIN BOARD, COMPLETE (AUS, PX) A CNP901 1-575-042-21 CORD, POWER (US, CND) A CNP901 1-575-051-21 CORD, POWER (AR) A CNP901 1-575-051-21 CORD, POWER (AR) A CNP901 1-575-061-21 CORD, POWER (US, CND) A CNP901 1-575-061-21 CORD, POWER (US, CND) A CNP901 1-575-042-21 CORD, POWER (US, CND) A CNP901 1-696-845-11 CORD, POWER (US, CND) A T901 1-431-046-11 TRANSFORMER, POWER (US, CND)	153	3-703-244-00	BUSHING (FBS001), CORD (US, CND)		159 1	1-569-008-11	ADAPTOR, CONVERSION 2P (AR)	
* 154	153	4-966-266-01	BUSHING (S) (FBS002), CORD (EXCEPT U	IS, CND)	* 160	4-988-533-11	HOLDER, PCB	
(EXCEPT US, CND) * 155	* 154	A-4392-442-A	POWER AMP BOARD, COMPLETE (US, C	CND)		1-558-943-41	CORD, POWER (E, MX, PX)	
(EXCEPT US, CND) * 155								
* 155 A-4392-474-A MAIN BOARD, COMPLETE (US, CND) * 155 A-4392-479-A MAIN BOARD, COMPLETE (E, AR, MX) * 155 A-4392-709-A MAIN BOARD, COMPLETE (AUS, PX) A T901 1-431-048-11 TRANSFORMER, POWER (US, CND) Δ T901 1-431-048-11 TRANSFORMER, POWER (EXCEPT US, CND)	* 154	A-4392-460-A	POWER AMP BOARD, COMPLETE		⚠ CNP901	1-575-042-21	CORD, POWER (US, CND)	
* 155 A-4392-479-A MAIN BOARD, COMPLETE (E, AR, MX) * 155 A-4392-709-A MAIN BOARD, COMPLETE (AUS, PX) △ T901 1-431-046-11 TRANSFORMER, POWER (US, CND) △ T901 1-431-048-11 TRANSFORMER, POWER (EXCEPT US, CND)			(EXCEPT L	JS, CND)	⚠ CNP901	1-575-651-21	CORD, POWER (AR)	
* 155 A-4392-709-A MAIN BOARD, COMPLETE (AUS, PX)	* 155	A-4392-474-A	MAIN BOARD, COMPLETE (US, CND)		⚠ CNP901	1-696-845-11	CORD, POWER (AUS)	
	* 155	A-4392-479-A	MAIN BOARD, COMPLETE (E, AR, MX)		 ⚠ T901	1-431-046-11	TRANSFORMER, POWER (US, CND)	
156 1-777-868-11 WIRE (FLAT TYPE) (19 CORE)	* 155	A-4392-709-A	MAIN BOARD, COMPLETE (AUS, PX)		 ⚠ T901	1-431-048-11	TRANSFORMER, POWER (EXCEPT US,	CND)
	156	1-777-868-11	WIRE (FLAT TYPE) (19 CORE)					

(5) TAPE MECHANISM DECK SECTION-1 (TCM-220WR2)



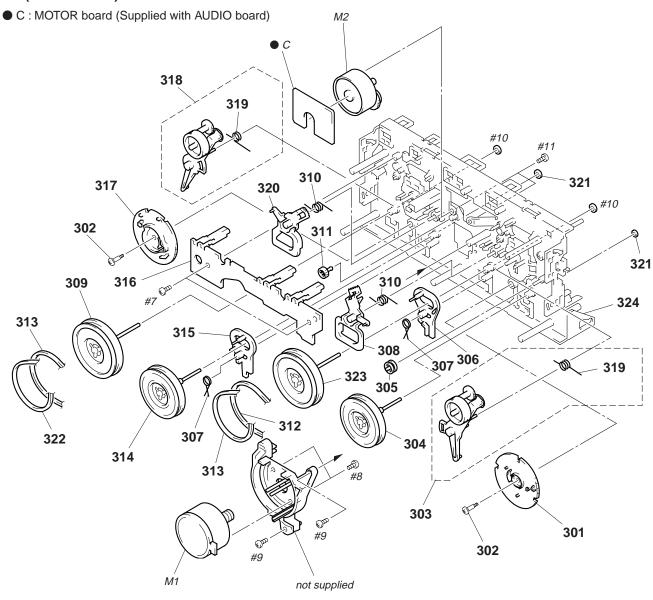
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	X-4947-943-1	HOLDER (L) ASSY, CASSETTE		* 206	4-980-439-01	FULCRUM, HOLDER	
202	X-4947-944-1	HOLDER (R) ASSY, CASSETTE		207	3-354-957-01	JOINT (LOCK LEVER)	
203	4-959-231-11	SPRING (L), TORSION		208	3-354-953-01	LEVER (LOCK LEVER L)	
204	4-959-232-11	SPRING (R), TORSION		209	3-354-954-01	LEVER (LOCK LEVER R)	
205	3-354-963-01	DAMPER					

(6) TAPE MECHANISM DECK SECTION-2 (TCM-220WR2)



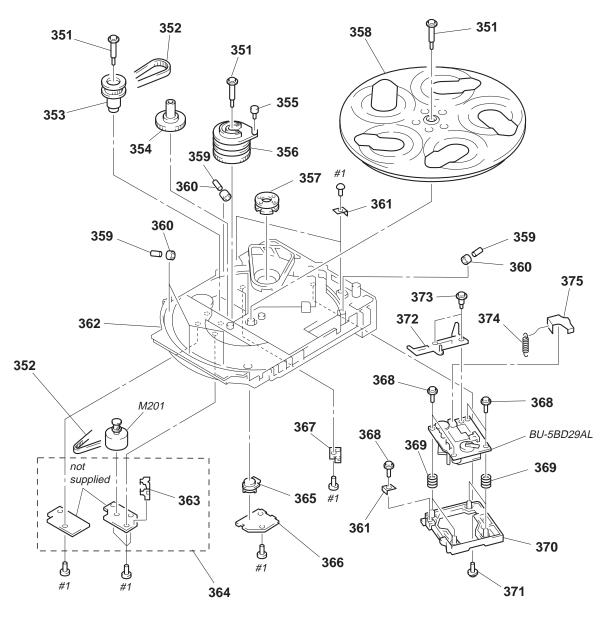
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
251	3-908-560-01	SPRING, AZIMUTH ADJUSTMENT		264	3-908-613-01	GEAR (S), REEL	
252	3-919-684-01	SCREW, AZIMUTH ADJUSTMENT		265	3-917-141-01	SPRING, COMPRESSION	
253	X-3373-113-1	SLIDER (HEAD) ASSY		266	X-3371-305-1	REEL (T) ASSY	
254	3-908-556-01	SPRING, HEAD TOGGLE		267	3-669-465-01	WASHER (1.5), STOPPER	
255	3-908-558-02	FITTING BLOCK, HEAD		268	X-3370-173-1	TU ASSY	
256	3-908-557-02	ROTARY BLOCK, HEAD		269	3-911-116-21	RIVET, PUSH	
* 257	3-908-559-01	STOPPER, AZIMUTH		* 271	A-2007-131-A	AUDIO BOARD, COMPLETE	
258	3-908-555-01	SLIDER (REV SLIDER)		272	3-930-972-01	DETENT, HALF	
259	3-917-143-11	SPRING, TENSION		273	3-917-142-01	SPRING, COMPRESSION	
260	3-388-848-01	SCREW (P2X6) (B TIGHT)		274	3-911-116-11	RIVET, PUSH	
261	3-939-371-01	SPRING (1), TENSION		HP101	1-500-093-11	HEAD, MAGNETIC (PLAYBACK) (DECK A	4)
262	X-3369-909-1	PINCH LEVER (REV) ASSY		HRPE10	11-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE) (DE	CK B)
263	X-3369-908-1	PINCH LEVER (FWD) ASSY					

(7) TAPE MECHANISM DECK SECTION-3 (TCM-220WR2)



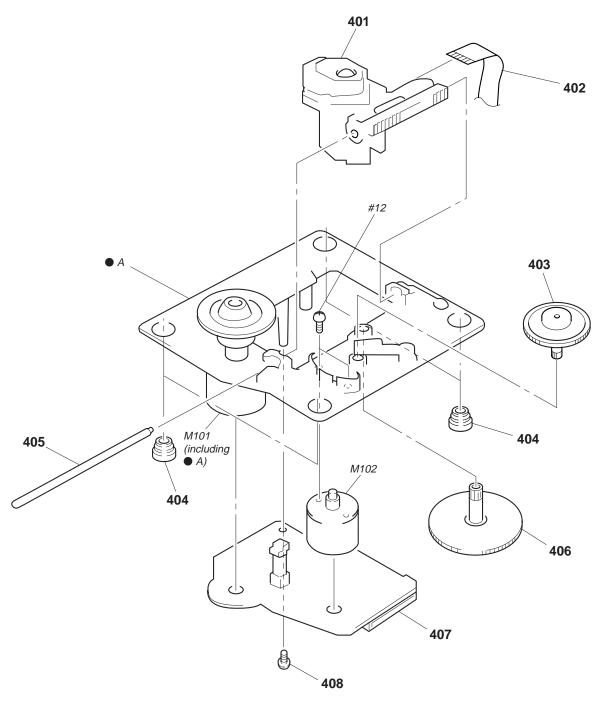
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	3-908-597-01	CAM (A)		314	X-3370-171-1	FLYWHEEL (BR) ASSY	
302	3-908-608-11	SCREW, STEP		315	3-908-600-01	LEVER (REV-B)	
303	X-3372-930-1	ARM (A) ASSY, FR		* 316	1-650-669-11	LEAF SWITCH BOARD	
304	X-3370-169-1	FLYWHEEL (AR) ASSY		317	3-908-598-01	CAM (B)	
305	3-928-047-01	PULLEY, TENSION		318	X-3372-931-1	ARM (B) ASSY, FR	
306	3-908-599-01	LEVER (REV-A)		319	3-914-111-01	SPRING (FR), TORSION	
307	3-908-601-01	SPRING (REV LEVER), TORSION		320	3-908-604-01	LEVER (TRIGGER B)	
308	3-908-603-01	LEVER (TRIGGER A)		321	3-911-115-01	WASHER, STOPPER	
309	X-3367-593-1	FLYWHEEL (BF) ASSY		322	3-917-176-11	BELT (B)	
310	3-908-605-01	SPRING (TRIGGER), TORSION		323	X-3370-172-1	FLYWHEEL (AF) ASSY	
311	3-908-609-01	GEAR, TRIGGER		324	X-3371-441-1	CHASSIS ASSY, MECHANICAL	
312	3-913-845-11	BELT (A)		M1	X-3371-223-1	MOTOR ASSY, CAPSTAN	
313	3-913-846-11	BELT (FR)		M2	A-2004-410-A	MOTOR ASSY, DC (TRIGGER)	

(8) CD MECHANISM DECK SECTION (CDM37L-5BD29AL)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
351	4-987-976-01	SCREW, STEP		* 364	A-4673-765-A	CD MOTOR BOARD, COMPLETE	
352	4-944-490-01	BELT (TIMING)		365	4-978-426-01	INDICATOR (NO.)	
353	A-4660-978-A	GEAR (PULLEY) ASSY		* 366	1-659-059-13	BD LED BOARD	
354	4-978-421-01	GEAR (MID)		* 367	1-659-058-13	TABLE SENSOR BOARD	
355	4-978-425-01	ROLLER (CAM)		368	4-933-134-01	SCREW (+PTPWH M2.6X6)	
356	4-978-420-01	CAM (HOLDER)		369	4-958-593-01	SPRING (BU), COMPRESSION	
357	1-452-538-11	MAGNET		* 370	4-978-419-01	HOLDER (BU-5)	
358	4-978-417-01	TABLE, DISC		371	4-917-583-71	BRACKET, YOKE	
359	4-934-376-01	SHAFT (ROLLER)		372	4-989-493-01	SLIDER (37)	
360	X-4924-457-1	ROLLER ASSY		373	4-989-494-01	SCREW (SLIDER), STEP	
* 361 * 362 * 363	4-978-583-01 4-978-418-01 4-980-385-01	` '		374 375 M201	4-989-491-21	SPRING, TENSION COVER, LENS MOTOR ASSY (TABLE)	

(9) BASE UNIT SECTION (BU-5BD29AL)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
 401	8-820-020-01	OPTICAL PICK-UP KSS-213D/Q-NP		406	4-917-564-01	GEAR (P), FLATNESS	
402	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)		* 407	A-4699-522-A	BD BOARD, COMPLETE	
403	4-917-567-21	GEAR (M)		408	4-951-620-01	SCREW (2.6X8), +BVTP	
404	4-951-940-01	INSULATOR (BU)		M101	X-4917-523-4	MOTOR ASSY (SPINDLE)	
405	4-917-565-01	SHAFT, SLED		M102	X-4917-504-1	MOTOR ASSY (SLED)	

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité.

AUDIO

SECTION 8 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on
- · -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS

All resistors are in ohms. METAL: Metal-film resistor.

METAL OXIDE: Metal oxide-film resistor.

F: nonflammable

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS

In each case, u: μ , for example: uA. . : μA. . uPB. . : μPB. . uPA. . : μPA. . $uPC..: \mu PC..$

uPD. . : μPD. . • CAPACITORS uF: μF

 COILS $uH\colon \mu H$

• Abbreviation

AR : Argentine AUS : Australian CND: Canadian MX : Mexican

The components identified by mark
⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiquens pour la sécurité.

Ne les remplacer que par une pièce portant le neméro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
						C624	1-130-481-00	MYLAR	0.0068u	F 5%	50V
*	A-2007-131-A	AUDIO BOARD, CO	OMPLETE			C625	1-130-481-00	MYLAR	0.0068u	F 5%	50V
		*********				C627	1-124-903-11		1uF	20%	50V
		(including MOTOR	BOARD)			C628	1-136-153-00	FILM	0.01uF	5%	50V
		. 0	•								
		< CAPACITOR >				C642	1-104-664-11	ELECT	47uF	20%	16V
						C651	1-161-494-00	CERAMIC	0.022uF		25V
C301	1-162-289-31	CERAMIC	390PF	10%	50V						
C302	1-126-968-11	ELECT	100uF	20%	6.3V			< CONNECTOR >			
C303	1-162-282-31	CERAMIC	100PF	10%	50V						
C304	1-130-483-00	MYLAR	0.01uF	5%	50V	* CN601		SOCKET, CONNE			
C305	1-107-715-11	ELECT	22uF	20%	16V	* CN602		PIN, CONNECTO		TYPE) 2F)
						* CN651	1-564-521-11	PLUG, CONNECT	OR 6P		
C311	1-162-289-31		390PF	10%	50V						
C313	1-162-282-31		100PF	10%	50V			< IC >			
C314	1-130-487-00		0.022uF		50V	10/04	0.750.444.44	10 00457004			
C315	1-126-233-11		22uF	20%	25V	IC601		IC uPC4570C-1			
C331	1-137-427-11	FILIVI	120PF	5%	50V	IC602		IC uPC1330HA			
Caaa	1 1/2 200 21	CEDANAIC	22005	100/	EOV/	IC611	8-759-111-44	IC uPC4570C-1			
C332 C333	1-162-288-31		330PF 27PF	10% 5%	50V 50V						
C333 C401	1-162-209-31 1-162-289-31		390PF	10%	50V 50V			< COIL >			
C401	1-126-968-11		100uF	20%	6.3V	L331	1-410-780-11	INDLICTOR	27mH		
C402	1-162-282-31		1000ii	10%	50V	L431	1-410-780-11		27mH		
0403	1-102-202-31	CERAINIC	10011	10 70	30 V	L431	1-410-700-11	INDOCTOR .	2711111		
C404	1-130-483-00	MYLAR	0.01uF	5%	50V			< TRANSISTOR :	>		
C405	1-107-715-11	ELECT	22uF	20%	16V						
C411	1-162-289-31	CERAMIC	390PF	10%	50V	Q621	8-729-142-46	TRANSISTOR 2	SC2001-LK		
C413	1-162-282-31	CERAMIC	100PF	10%	50V	Q622	8-729-142-46	TRANSISTOR 2	SC2001-LK		
C414	1-130-487-00	MYLAR	0.022uF	5%	50V	Q623		TRANSISTOR 2			
						Q651	8-729-900-65	TRANSISTOR D	TA144ES		
C415	1-126-233-11		22uF	20%	25V						
C431	1-137-427-11		120PF	5%	50V			< RESISTOR >			
C432	1-162-288-31		330PF	10%	50V						
C433	1-162-209-31		27PF	5%	50V	R301	1-247-881-00		120K	5%	1/4W
C601	1-104-396-11	ELECT	10uF	20%	16V	R302	1-249-409-11		220	5%	1/4W
0.400	4 404 007 44	FLEOT	40 F	000/	401	R303	1-249-433-11		22K	5%	1/4W
C602	1-104-396-11		10uF	20%	16V	R304	1-247-889-00		270K	5%	1/4W
C611	1-124-907-11		10uF	20%	50V	R305	1-247-858-11	CARBON	13K	5%	1/4W
C612	1-124-907-11		10uF	20%	50V	D211	1 247 001 00	CADDON	1201/	E0/	1/4\4/
C621	1-137-150-11		0.01uF	5%	100V	R311	1-247-881-00		120K	5%	1/4W
C622	1-126-961-11	ELECT	2.2uF	20%	50V	R312 R314	1-247-807-31 1-247-882-11		100 130K	5% 5%	1/4W 1/4W
C623	1-136-155-00	EILM	0.015uF	F 0/	50V	R314 R315	1-247-882-11		6.2K	5% 5%	1/4VV 1/4W
C023	1-130-133-00	I ILIVI	0.01501	J 70	50 V	K313	1-247-830-11	CARDUN	U.ZK	J 70	1/4VV

AUDIO

BD

Ref. No.	Part No.	Description			Rem	ark	Ref. No.	Part No.	Description			Remark
D221	1 240 420 11	CADDON	121/	E0/	1/4W							
R331	1-249-430-11	CARBUN	12K	5%	1/4 VV		C107	1 16/ 161 11	CERAMIC CHIP	0.0022uF	10%	100V
R401	1-247-881-00	CADRON	120K	5%	1/4W		C107		CERAMIC CHIP	0.0022ui	1070	50V
R401	1-247-881-00		220	5%	1/4W		C108		CERAMIC CHIP	0.01ul 0.01uF		50V 50V
R402 R403	1-249-409-11		220 22K	5% 5%	1/4W		C109 C110		CERAMIC CHIP	0.01uF 0.033uF	100/	25V
R403	1-247-889-00						C110					50V
			270K	5% 5%	1/4W 1/4W		CIII	1-103-017-00	CERAMIC CHIP	0.0047uF	5%	5UV
R405	1-247-858-11	CARBUN	13K	5%	1/4 VV		C112	1 142 017 00	CERAMIC CHIP	0.0047uF	E0/	50V
R411	1-247-881-00	CADDON	120K	5%	1/4W		C112		CERAMIC CHIP	0.0047uF		100V
	1-247-807-31								CERAMIC CHIP		1076	
R412 R414	1-247-807-31		100 130K	5% 5%	1/4W 1/4W		C114 C115	1-126-607-11		0.47uF 47uF	20%	25V 4V
R414 R415	1-247-850-11		6.2K	5%	1/4W		C115		CERAMIC CHIP	0.0039uF		50V
							CIIO	1-103-010-00	CERAIVIIC CHIP	0.0039uF	1076	30 V
R431	1-249-430-11	CARBUN	12K	5%	1/4W		C117	1 144 005 11	CERAMIC CHIP	0.47uF		25V
D/ 01	1-249-409-11	CADDON	220	5%	1/4W		C117		CERAMIC CHIP	0.47uF 0.1uF	10%	25V 25V
R601			220								10%	
R602	1-249-409-11		220	5% 5%	1/4W		C119		CERAMIC CHIP	0.1uF 10uF	20%	25V
R608	1-249-409-11		220	5%	1/4W		C120	1-124-779-00			20%	16V
R609	1-249-433-11		22K	5%	1/4W		C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R611	1-249-409-11	CARBON	220	5%	1/4W		C122	1 1// 222 11	CERAMIC CHIP	0.01		50V
D/12	1 240 400 11	CADDON	220	Ε0/	1 / 4\ 1/		C122			0.01uF		
R612	1-249-409-11		220	5%	1/4W	г	C123		CERAMIC CHIP	0.1uF	200/	25V
 A R 621	1-212-851-00		5.6	5%	1/4W	F	C124	1-126-607-11		47uF	20%	4V
 A R622	1-212-851-00		5.6	5%	1/4W	F	C125		CERAMIC CHIP	0.01uF		50V
R623	1-249-432-11		18K	5%	1/4W		C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V
R624	1-249-432-11	CARBON	18K	5%	1/4W		C127	1 1// 1/1 11	CERAMIC CHIP	0.0022uF	100/	1001/
D/OF	1 240 420 11	CADDON	101/	Ε0/	1 / 4\ 1/		C127					100V
R625	1-249-429-11		10K	5%	1/4W		C128		CERAMIC CHIP		5%	50V
R651	1-247-856-00		11K	5%	1/4W		C129		CERAMIC CHIP	0.1uF		25V
R652	1-247-856-00		11K	5%	1/4W		C130		CERAMIC CHIP	0.33uF		25V
R653	1-249-441-11	CARBON	100K	5%	1/4W		C131	1-104-340-11	CERAMIC CHIP	1uF		16V
		< VARIABLE RESI	STOD >				C140	1 110 501 11	CERAMIC CHIP	0.33uF		50V
		< VARIABLE RESI	310K >				C140		CERAMIC CHIP	22PF	5%	50V 50V
RV301	1 220 500 11	RES, ADJ, CARBO	M 2 2V				C161		CERAMIC CHIP	0.47uF	370	25V
RV301		RES, ADJ, CARBO					C161		CERAMIC CHIP	0.47uF 0.01uF		50V
RV311		RES, ADJ, CARBO					C162		CERAMIC CHIP		5%	50V 50V
RV401		RES, ADJ, CARBO					C 103	1-103-117-00	CERAIVIIC CHIF	TOUFT	3 /0	30 V
RV401		RES, ADJ, CARBO					C164	1 163 145 00	CERAMIC CHIP	0.0015uF	5%	50V
10411	1-230-370-11	ICLS, ADS, CAIDO	/IN Z.ZIX				C165		CERAMIC CHIP		10%	25V
RV441	1 220 551 11	RES. ADJ. CARBO	พ ววกห				C166		CERAMIC CHIP		5%	50V
RV651		RES, ADJ, CARBO					C167		CERAMIC CHIP		5%	50V
RV651		RES, ADJ, CARBO					C168		CERAMIC CHIP		5%	50V
10032	1-230-377-11	ICLS, ADS, CAIDO	/IN 4./IX				C 100	1-103-137-00	CEIVAIVIIC CITII	00011	J 70	30 V
		< TRANSFORMER	>				C169	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
		V THOUSE OR WILLY					C170		CERAMIC CHIP		5%	50V
T621	1-423-980-11	TRANSFORMER, E	RIAS OSC	ΙΙΙ ΔΤΙΟΝ	I		C171		CERAMIC CHIP		5%	50V
		*******				k ok	C173		CERAMIC CHIP	0.1uF	070	25V
							C174		CERAMIC CHIP	0.1uF		25V
*	A-4699-522-A	BD BOARD, COM	PI FTF				0171	1 100 000 71	OLIVINIO OTIII	0.141		201
	7. 1077 022 7.	*******					C175	1-163-038-91	CERAMIC CHIP	0.1uF		25V
							C176		CERAMIC CHIP	0.1uF		25V
		< CAPACITOR >					C177		CERAMIC CHIP	0.1uF		25V
							C178		CERAMIC CHIP	0.1uF		25V
C101	1-126-607-11	ELECT CHIP	47uF	20%	4V		C179		CERAMIC CHIP	0.1uF		25V
C102		CERAMIC CHIP	0.001uF		50V		0					
C103		CERAMIC CHIP	1uF	0.0	16V		C181	1-126-205-11	ELECT CHIP	47uF	20%	6.3V
C105		CERAMIC CHIP	0.1uF		25V		C182	1-126-393-11			20%	10V
C106		CERAMIC CHIP	0.0022u	F 10%	100V		C183	1-124-778-00			20%	6.3V
								,5 50	- · · - · · ·			

The components identified by
mark A or dotted line with
mark \triangle are critical for safety.
Replace only with part number
specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
C185	1-164-232-11	CERAMIC CHIP	0.01uF		50V	R128	1-216-098-00	METAL CHIP	110K	5%	1/10W
C188		CERAMIC CHIP	22PF	5%	50V	R129		METAL GLAZE	100	5%	1/10W
						R130	1-216-079-00		18K	5%	1/10W
C189	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	R131	1-216-079-00		18K	5%	1/10W
		< CONNECTOR >				R132	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
						R133	1-216-061-00		3.3K	5%	1/10W
CNU101	1-770-014-11	CONNECTOR, FFC	/FPC 16P			R134	1-216-065-00		4.7K	5%	1/10W
		CONNECTOR, FFC				R135	1-216-065-00		4.7K	5%	1/10W
		CONNECTOR, FFC				R136	1-216-073-00		10K	5%	1/10W
		< FERRITE BEAD :	>			R137	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
						R138		METAL GLAZE	100	5%	1/10W
FB101	1-414-234-11	INDUCTOR, FERR	ITE BEAD			R156	1-216-081-00	METAL CHIP	22K	5%	1/10W
FB103	1-414-234-11	INDUCTOR, FERR	ITE BEAD			R157	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
		< IC >				R158	1-216-001-00	METAL CHIP	10	5%	1/10W
		107				R159	1-216-121-91	METAL GLAZE	1M	5%	1/10W
IC101	8-752-080-62	IC CXA1992AR				R161		METAL GLAZE	100K	5%	1/10W
IC102		IC BA5941FP-E2				R162	1-216-073-00		10K	5%	1/10W
IC102		IC CXD2519Q				R163		METAL GLAZE	1M	5%	1/10W
10103	0-732-370-00	IC CAD2319Q				R164	1-216-061-00		3.3K	5%	1/10W
		< JUMPER RESIS	TOR \			K104	1-210-001-00	WILTAL CITIF	3.31	370	1/1000
		V JOINI EN NEJIJ	1010			R165	1-216-049-91	METAL GLAZE	1K	5%	1/10W
I\\\/101	1-216-205-01	CONDUCTOR, CH	ID (2	012)		R166	1-216-073-00		10K	5%	1/10W
		CONDUCTOR, CH	`	012)		R167	1-216-073-00		22K	5%	1/10W
3 7 7 1 0 4	1-210-275-71	CONDUCTOR, CIT	11 (2	012)		R168	1-216-073-00		10K	5%	1/10W
		< TRANSISTOR >				R169	1-216-079-00		18K	5%	1/10W
		< TRANSISTOR >				K 109	1-210-079-00	WE TAL CHIP	ION	370	1/1000
Q101	8-729-010-08	TRANSISTOR M	SB710-R			R170	1-216-081-00	METAL CHIP	22K	5%	1/10W
						R171	1-216-073-00		10K	5%	1/10W
		< RESISTOR >				R172	1-216-079-00		18K	5%	1/10W
						R173		METAL GLAZE	100	5%	1/10W
R102	1-216-001-00	METAL CHIP	10	5%	1/10W	R174	1-216-033-00		220	5%	1/10W
R104	1-216-093-00		68K	5%	1/10W						
R105	1-216-088-00		43K	5%	1/10W	R175	1-216-025-91	METAL GLAZE	100	5%	1/10W
R106	1-216-088-00		43K	5%	1/10W	R176		METAL GLAZE	100	5%	1/10W
R107	1-216-088-00		43K	5%	1/10W	R177		METAL GLAZE	100	5%	1/10W
11107	1 210 000 00	WEINE OIII	1010	070	171011	R178		METAL GLAZE	100	5%	1/10W
R108	1-216-088-00	METAL CHIP	43K	5%	1/10W	R179		METAL GLAZE	100	5%	1/10W
R109	1-216-093-00		68K	5%	1/10W	1(17)	1 210 020 71	WEINE OLIVE	100	070	171011
R114	1-216-101-00		150K	5%	1/10W	R180	1-216-025-91	METAL GLAZE	100	5%	1/10W
R115	1-216-101-00		150K	5%	1/10W		1-216-025-91		100	5%	1/10W
R116	1-216-061-00		3.3K	5%	1/10W	R188	1-216-037-00		330	5%	1/10W
KIIO	1 210 001 00	WEINE OIII	3.510	370	17 10 00	R190		METAL GLAZE	100K	5%	1/10W
R117	1-216-069-00	METAL CHID	6.8K	5%	1/10W	R191		METAL GLAZE	220K	5%	1/10W
R117	1-216-063-91		3.9K	5%	1/10W	13171	1-210-103-71	IVIL TAL OLAZL	ZZUK	J 70	17 10 00
	1-216-085-00		3.7K	5%	1/10W			< SWITCH >			
R119								< 3₩110∏ >			
R120		METAL GLAZE	47K	5%	1/10W	C101	1 572 005 11	SWITCH, LEAF			
R121	1-210-114-00	METAL GLAZE	510K	5%	1/10W	S101	1-07Z-U80-11	SWITCH, LEAF			
R122	1-216-097-91	METAL GLAZE	100K	5%	1/10W			< VIBRATOR >			
R123	1-216-099-00		120K	5%	1/10W						
R124	1-216-091-00		56K	5%	1/10W	X101	1-767-408-21	VIBRATOR, CRYS	TAL (16.9	344MHz)	
R125	1-216-069-00		6.8K	5%	1/10W			******		,	
R126		METAL GLAZE	3.9K	5%	1/10W						
R127	1-216-089-91	METAL GLAZE	47K	5%	1/10W						

BD LED CD MOTOR CD-A SW CD-B1 SW

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Descript	ion			Remark
*	1-659-059-13	BD LED BOARD						< DIODE	>			
						D641	8-719-058-04	DIODE	SEL5223	S-TP15 (I	NON-STO	OP)
		< DIODE >						< RESIS	TOR >			
D201	8-719-032-98	DIODE SEL5820A				R731	1-247-843-11	CARBON	I	3.3K	5%	1/4W
		< TRANSISTOR >				R732 R733	1-249-425-11 1-249-427-11			4.7K 6.8K	5% 5%	1/4W 1/4W
Q201	8-729-119-78	TRANSISTOR 2SC40	03SP-51			R734	1-249-429-11	CARBON	I	10K	5%	1/4W
		< RESISTOR >				R735	1-249-432-11	CARBON	l	18K	5%	1/4W
						R736	1-249-436-11			39K	5%	1/4W
R201	1-247-863-91				1/4W	R737	1-247-881-00			120K	5%	1/4W
R202 R203	1-249-411-11 1-249-437-11				1/4W 1/4W	R741	1-247-807-31	CARBON	ı	100	5%	1/4W
		********						< SWITC	CH >			
*	A-4673-765-A	CD MOTOR BOARD, (S661	1-554-303-21			` .	,	
		*******	******	**		S662	1-554-303-21					
		< CAPACITOR >				S663 S664	1-554-303-21 1-554-303-21					
		< CAPACITOR >				S665	1-554-303-21					
C201	1-124-907-11	ELECT 10)uF 20)%	50V				,	(= :- :	,	
C202	1-164-159-21	CERAMIC 0.	1uF		50V	S666	1-554-303-21					
C203	1-124-907-11	ELECT 10)uF 20)%	50V	S667	1-554-303-21				ГОР)	
		< CONNECTOR >				S668 ******	1-554-303-21 ******			` ,	*****	*****
* CN201	1-568-947-11	PIN, CONNECTOR 9P				*	1-664-010-11	CD-B1 S	W BOARI)		
								*****	******	*		
		< IC >						< DIODE	>			
IC201	8-759-365-94	IC TA8409S				5.45		51055	0515400	/-		
		< COIL >				D645 D646	8-719-058-03 8-719-057-97			•		,
		1 0012 /				D647	8-719-058-03					
L201	1-408-117-00	INDUCTOR 10uH						< RESIS	TOD s			
		< RESISTOR >						< KESIS	IUK >			
						R745	1-249-419-11	CARBON	l	1.5K	5%	1/4W
R205	1-249-427-11		8K 59		1/4W	R746	1-249-421-11			2.2K	5%	1/4W
R206	1-249-425-11	CARBON 4.	7K 59	%	1/4W	R747	1-247-843-11			3.3K	5%	1/4W
		< SWITCH >				R748 R749	1-249-425-11 1-247-807-31			4.7K 100	5% 5%	1/4W 1/4W
		< SWITCH >				10747	1-247-007-31	CARBON	•	100	J 70	17400
S201		SWITCH, PUSH (1 KE	,			R750	1-247-807-31			100	5%	1/4W
******	******	******	******	****	****	R751	1-247-807-31	CARBON	l	100	5%	1/4W
*	1-664-009-11	CD-A SW BOARD						< SWITC	CH >			
		******				S676	1-554-303-21	S/WITCH	ΤΔ (ΤΙΙ Ε	(>)		
		< CONNECTOR >				S677	1-554-303-21			. ,		
						S678	1-554-303-21					
* CN642	1-568-943-11	PIN, CONNECTOR 5P				S679	1-554-303-21		,		,	
						******	*********	******	*****	******	*****	******

CD-B2 SW

DOOR SW

HEADPHONE-MIC

LEAF SWITCH

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
*	1-664-011-11	CD-B2 SW BOARD				C776 C794 C795	1-162-294-31 1-164-159-21 1-164-159-21	CERAMIC	0.001uF 0.1uF 0.1uF	10%	50V 50V 50V
		< RESISTOR >				0775	1-104-139-21	< CONNECTOR >	O. Tui		307
R752 R753	1-249-427-11 1-249-429-11		6.8K 10K	5% 5%	1/4W 1/4W	* CN701	1-568-935-11	PIN, CONNECTOR	8P		
R754 R755	1-249-432-11 1-249-436-11	CARBON	18K 39K	5% 5%	1/4W 1/4W	0.17.01		< IC >	0.		
R756	1-247-881-00	CARBON	120K	5%	1/4W	IC760	8-759-634-51	IC M5218AP			
		< SWITCH >						< JACK >			
S681 S682	1-554-303-21	SWITCH, TACTILE SWITCH, TACTILE	(REPEAT	,		J760		JACK (LARGE TYPE) (PHONES)			
S683 S684	1-554-303-21	SWITCH, TACTILE SWITCH, TACTILE	(1/ALL D			J761	1-770-226-11	JACK (LARGE TYF	PE) (MIC)		
S685		SWITCH, TACTILE SWITCH, TACTILE	, ,			D7/0	1 240 420 11	< RESISTOR >	101/	F0/	1/4/0/
S686 S711		ENCODER, ROTAR	` '	AMS ⊳⊳	1)	R760 R761	1-249-429-11 1-249-417-11		10K 1K	5% 5%	1/4W 1/4W
******	*********	*********	******	*****	*****	R764	1-249-441-11		100K	5%	1/4W
*	1 664 016 11	DOOR SW BOARD	1			R765 R766	1-249-417-11 1-247-863-91		1K 22K	5% 5%	1/4W 1/4W
	1-004-010-11	*******								5%	1/4W
		< CAPACITOR >				R767 R769	1-249-429-11 1-247-885-00	CARBON	10K 180K	5%	1/4W
C691	1-164-159-21	CERAMIC	0.1uF		50V	R770	1-247-807-31	CARBON	100	5%	1/4W
								< VARIABLE RESI	STOR >		
		< CONNECTOR >				DV760	1 225 266 11	RES, VAR, CARBO	N EOK		
CN661	1-506-481-11	PIN, CONNECTOR	2P					********		******	******
		< SWITCH >				*	1-650-669-11	LEAF SWITCH BO			
S691	1-771-057-11	SWITCH (OPEN	I)						4. 4. 4. 4.		
******	******	*******	*****	*****	*****			< CONNECTOR >			
*	A-4392-452-A	HEADPONE-MIC I				* CN1001	1-568-854-11	SOCKET, CONNEC	TOR 11P		
		< CAPACITOR >						< TRANSISTOR >			
		< CAPACITOR >				Q1001	8-749-010-90	TRANSISTOR PHO	TO REFLI	ECTOR N	JJL5165KA-H
C760	1-162-306-11		0.01uF	20%	16V	Q1002	8-749-010-90	TRANSISTOR PHO	TO REFLI	ECTOR N	JJL5165KA-H
C761	1-126-961-11		2.2uF	20%	50V			< RESISTOR >			
C764 C765	1-162-294-31 1-162-215-31		0.001uF 47PF	5%	50V 50V			< RESISTUR >			
C766	1-162-290-31		470PF	10%	50V	R1001	1-247-818-11	CARBON	300	5%	1/4W
						R1002	1-247-820-11		360	5%	1/4W
C767	1-162-215-31	CERAMIC	47PF	5%	50V	R1003	1-249-414-11	CARBON	560	5%	1/4W
C769	1-162-282-31		100PF	10%	50V	R1004	1-247-834-11		1.3K	5%	1/4W
C770	1-126-961-11		2.2uF	20%	50V	R1005	1-247-818-11	CARBON	300	5%	1/4W
C771 C773	1-126-959-11 1-126-964-11		0.47uF 10uF	20% 20%	50V 50V			< SWITCH >			
0113	1-12U-7U4-11	LLLUI	Toul	20 /0	JU V			< JVIIIII/			
C774	1-126-964-11		10uF	20%	50V	S1001		SWITCH, PUSH (1	, ,	,	
C775	1-162-294-31	CERAMIC	0.001uF	10%	50V	S1002	1-692-832-11	SWITCH, PUSH (1	KEY) (B	PLAY)	

LEAF SWITCH

LED

MAIN

Ref. No.	Part No.	Description		Remark	Ref. No.	Part No.	Description			Remark
S1004	1-571-281-21	SWITCH, LEAF (A	HALF)		C202	1-136-169-00	FILM	0.22uF	5%	50V
S1005	1-571-281-21	SWITCH, LEAF (A	CrO2)		C203	1-130-493-00	MYLAR	0.068uF	5%	50V
S1006	1-572-248-21	SWITCH, LEAF (R	EC A)		C204	1-130-493-00	MYLAR	0.068uF	5%	50V
S1007		SWITCH, LEAF (B	,		C205	1-130-486-00		0.018uF		50V
S1008		SWITCH, LEAF (R			C206	1-130-486-00		0.018uF		50V
S1009		SWITCH, LEAF (B		a ale ale ale ale ale ale ale ale	C207	1-130-480-00		0.0056ul		50V
*****	· * * * * * * * * * * * * * * * * * * *	***	******	****	C208 C209	1-130-479-00 1-130-474-00		0.0047uf 0.0018uf		50V 50V
*	1-664-017-11	I ED BOVDD			C209	1-130-474-00	WITLAR	0.00 rour	3%	30 V
	1-004-017-11	******			C210	1-126-964-11	FLECT	10uF	20%	50V
					C211	1-126-964-11		10uF	20%	50V
		< CONNECTOR >			C212	1-130-481-00		0.0068uf		50V
					C213	1-136-169-00		0.22uF	5%	50V
CN671	1-506-481-11	PIN, CONNECTOR	2P		C214	1-136-169-00		0.22uF	5%	50V
		< DIODE >			C215	1-162-294-31	CERAMIC	0.001uF	10%	50V
					C216	1-136-167-00	FILM	0.15uF	5%	50V
D671		DIODE SEL5423			C221	1-126-967-11		47uF	20%	10V
D672		DIODE SEL5423			C222	1-126-967-11		47uF	20%	10V
D673		DIODE SEL5423			C223	1-126-964-11	ELECT	10uF	20%	50V
D674	8-719-058-03	DIODE SEL5423	E-1P15		0004	1 1/2 200 21	CEDANAIC	470DE	100/	F0\/
		, DECICTOR .			C224 C226	1-162-290-31 1-126-964-11		470PF	10%	50V 50V
		< RESISTOR >			C226 C227	1-120-904-11		10uF 0.1uF	20%	50V 50V
R791	1-249-412-11	CADRON	390 5%	1/4W	C227	1-126-960-11		1uF	20%	50V 50V
		**********			C251	1-136-169-00		0.22uF	5%	50V
					0201	1 100 107 00	T TEIVI	0.2241	070	
*	A-4392-474-A	MAIN BOARD, CO	MPLETE (US, CNI	D)	C252	1-136-169-00	FILM	0.22uF	5%	50V
*	A-4392-479-A	MAIN BOARD, CO	MPLETE (E, AR, N	ЛX)	C253	1-130-493-00	MYLAR	0.068uF	5%	50V
*	A-4392-709-A	MAIN BOARD, CO	MPLETE (AUS, P)	X)	C254	1-130-493-00	MYLAR	0.068uF	5%	50V
		*********	********	k sk	C255	1-130-486-00	MYLAR	0.018uF	10%	50V
					C256	1-130-486-00	MYLAR	0.018uF	10%	50V
		SCREW +BVTP	3X8 TYPE2 N-S							
*	4-870-539-11	PLATE, GROUND			C257	1-130-480-00		0.0056ul		50V
		040401700			C258	1-130-479-00		0.0047uf		50V
		< CAPACITOR >			C259	1-130-474-00 1-126-964-11		0.0018uf 10uF		50V
C102	1-162-282-31	CEDAMIC	100PF 10%	50V	C260 C261	1-126-964-11		10uF 10uF	20% 20%	50V 50V
C102	1-162-282-31		100PF 10%	50V 50V	C201	1-120-904-11	ELECT	TOUF	20%	30 V
C103	1-102-202-31		3.3uF 20%	50V	C262	1-130-481-00	MYI AR	0.0068uF	5%	50V
C105	1-162-600-11		0.0047uF 30%	16V	C263	1-136-169-00		0.22uF		50V
C106	1-162-301-11		0.0015uF 30%	16V	C264	1-136-169-00		0.22uF	5%	50V
					C276	1-126-964-11		10uF	20%	50V
C107	1-126-956-91	ELECT	0.1uF 20%	50V	C281	1-126-933-11		100uF	20%	10V
C121	1-162-286-21	CERAMIC	220PF 10%	50V						
C123	1-162-306-11	CERAMIC	0.01uF 20%	16V	C282	1-126-961-11	ELECT	2.2uF	20%	50V
C152	1-162-282-31	CERAMIC	100PF 10%	50V	C283	1-126-933-11	ELECT	100uF	20%	10V
C153	1-162-282-31	CERAMIC	100PF 10%	50V	C284	1-126-923-11		220uF	20%	10V
_					C291	1-126-959-11		0.47uF	20%	50V
C154	1-126-962-11		3.3uF 20%	50V	C301	1-126-965-11	ELECT	22uF	20%	50V
C155	1-162-600-11		0.0047uF 30%	16V	0000	1 1/4 150 01	OFDANAIO	0.1. 5		F0\/
C156	1-162-301-11		0.0015uF 30%	16V	C302	1-164-159-21		0.1uF	F0/	50V
C157	1-126-956-91		0.1uF 20%	50V	C303	1-136-165-00		0.1uF	5%	50V
C171	1-162-286-21	CEKAIVIIC	220PF 10%	50V	C304 C305	1-126-926-11 1-162-306-11		1000uF 0.01uF	20% 20%	10V 16V
C173	1-162-306-11	CERAMIC	0.01uF 20%	16V	C305	1-102-300-11		22PF	20% 5%	50V
C201	1-102-300-11		0.22uF 5%	50V	0307	1-102-314-11	CLIMIVIIC	ZZI I	J /0	30 V
0201	1-130-107-00	1 ILIVI	J.ZZUI 3/0	JU V	ı					

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Descrip	tion	Remark
C310	1-102-514-11		22PF	5%	50V			< CONN	IECTOR >	
C311	1-164-159-21		0.1uF	000/	50V	011404	4 770 000 44	OONING	0700 00400 70 00400 400	
C315	1-126-933-11		100uF	20%	10V	CN101			CTOR, BOARD TO BOARD 13P	
C390	1-126-933-11		100uF	20%	10V				T, CONNECTOR 17P	
C393	1-126-925-11	ELECT	470uF	20%	10V				T, CONNECTOR 13P	
						CN202			r, CONNECTOR 19P	
C394	1-164-159-21		0.1uF		50V	* CN203	1-568-936-11	PIN, CO	INNECTOR 9P	
C396	1-126-961-11		2.2uF	20%	50V					
C398	1-126-961-11		2.2uF	20%	50V	CN205			T, CONNECTOR 21P	
C903	1-136-165-00		0.1uF	5%	50V				T, CONNECTOR 11P	
C904	1-126-937-11	ELECT	4700uF	20%	16V	* CN207	1-568-449-11	HOUSIN	IG, CONNECTOR(PC BOARD)3P	
C906	1-126-933-11	ELECT	100uF	20%	10V			< DIODI	E >	
C909	1-126-964-11	ELECT	10uF	20%	50V					
C910	1-126-933-11	ELECT	100uF	20%	10V	D141	8-719-987-63	DIODE	1N4148M	
C911	1-126-964-11		10uF	20%	50V	D281			1S1585 (US, CND)	
C912	1-126-916-11		1000uF		6.3V	D281			1N4148M (EXCEPT US, CND)	
						D291	8-719-987-63			
C913	1-126-943-11	ELECT	2200uF	20%	25V	D301	8-719-200-82			
C914	1-126-952-11		1000uF		16V					
C915	1-126-967-11		47uF	20%	16V	D302	8-719-200-82	DIODE	11ES2	
C916	1-164-159-21		0.1uF		50V	D303	8-719-987-63			
C917	1-126-968-11		100uF	20%	50V	D304	8-719-987-63			
0,.,	20 700			2070		D305	8-719-987-63			
C918	1-126-968-11	FLECT	100uF	20%	50V	D306	8-719-987-63			
C919	1-126-964-11		10uF	20%	50V	2000	0 7 1 7 7 0 7 0 0	5.052		
C920	1-126-947-11		47uF	20%	35V	D307	8-719-987-63	DIODE	1N4148M	
C953	1-136-165-00		0.1uF	5%	50V	D309	8-719-987-63			
C954	1-126-768-11		2200uF		16V	D902	8-719-200-82			
0,01	20 /00		22004.	2070		D903	8-719-200-82			
C956	1-126-933-11	FLECT	100uF	20%	10V	D904	8-719-200-82			
C1501	1-130-479-00		0.0047ul		50V	D701	0 717 200 02	DIODE	11202	
C1502	1-162-290-31		470PF	10%	50V	D905	8-719-200-82	DIODE	11FS2	
C1503	1-164-159-21		0.1uF	.070	50V	D906	8-719-200-82			
C1504	1-126-960-11		1uF	20%	50V	D907	8-719-200-82			
						D908	8-719-200-82			
C1505	1-126-964-11	FLECT	10uF	20%	50V	D909	8-719-200-82			
C1506	1-126-964-11		10uF	20%	50V					
C1507	1-126-960-11		1uF	20%	50V	D910	8-719-002-60	DIODE	UZL-33L-TA	
C1508	1-126-933-11		100uF	20%	10V	D911			UZ-3.3BSB-TA	
C1521	1-126-964-11		10uF	20%	50V	D912	8-719-987-63			
						D913	8-719-200-82			
C1522	1-126-964-11	ELECT	10uF	20%	50V	D914	8-719-200-82			
C1523	1-126-933-11		100uF	20%	16V					
C1531	1-164-159-21		0.1uF		50V	D915	8-719-001-43	DIODE	UZL-11M1-TA	
C1532	1-164-159-21		0.1uF		50V	D951	8-719-987-63			
C1533	1-164-159-21		0.1uF		50V	D952	8-719-987-63			
C1534	1-126-935-11		470uF	20%	16V			< FERR	ITE BEAD >	
C1551	1-130-479-00		0.0047ul	5%	50V					
C1552	1-162-290-31	CERAMIC	470PF	10%	50V	FB302	1-412-473-21	INDUCT	OR (SMALL)	
C1553	1-164-159-21		0.1uF		50V					
C1554	1-126-960-11	ELECT	1uF	20%	50V			< IC >		
C1555	1-126-964-11	FLECT	10uF	20%	50V	IC101	8-759-634-50	IC M5	218AI	
C1556	1-126-964-11		10uF	20%	50V	IC101	8-759-000-48			
C1557	1-126-960-11		1uF	20%	50V	IC201	8-759-331-39			
	1-126-933-11		100uF	20%	10V	IC231	8-759-634-50			
0.000	20 /00 11			_0,0		10201	3 . 3 . 00 7 00			

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description			Remark
IC281	8-759-111-68	IC uPC1237H	IA			< RESISTOR >			
IC301			8YGF-013-3BA	R102	1-249-417-11		1K	5%	1/4W
IC302		IC M51943B5	SL	R103	1-249-437-11		47K	5%	1/4W
IC901	8-759-288-53			R104	1-249-417-11	CARBON	1K	5%	1/4W
IC902	8-759-604-86	IC M5F7807L	-	R105	1-247-897-11	CARBON	560K	5%	1/4W
IC903	8-759-231-53	IC TA7805S		R106	1-249-437-11	CARBON	47K	5%	1/4W
IC904	8-759-231-58			R107	1-249-417-11		1K	5%	1/4W
IC1501		IC HA12203N	JT	R108	1-249-441-11		100K	5%	1/4W
IC1502	8-759-822-09	IC LB1641		R121	1-249-424-11		3.9K	5%	1/4W
				R122	1-247-887-00		220K	5%	1/4W
		< JACK >		R133	1-260-091-11	CARBON	220	5%	1/2W
J101	1-695-188-31	JACK, PIN 4P	(PHONO, VIDEO IN)	R134	1-260-091-11		220	5%	1/2W
				R140	1-249-429-11		10K	5%	1/4W
		< COIL >		R141	1-249-437-11		47K	5%	1/4W
				R142	1-249-429-11	CARBON	10K	5%	1/4W
L301 L393	1-410-509-11 1-410-515-11		10uH 33uH	<u></u>	1-215-893-11	METAL OXIDE	1.5K	5%	2W F (US,CND)
		< TRANSISTO	R >	 ⚠ R147	1-216-456-00	METAL OXIDE	820	5% (EXCE	2W F EPT US, CND)
Q141	0 720 140 02	TDANICISTOD	2SA988-PAFAEA (US, CND)	R152	1-249-417-11	CADDON	1K	5%	1/4W
Q141 Q141			2SA1175-HFE (EXCEPT US, CND)		1-249-437-11		47K	5%	1/4W
Q141 Q142			2SC1841-PAFAEA (US, CND)	R153	1-249-437-11		47K 1K	5% 5%	1/4 VV 1/4 W
Q142 Q142							560K	5%	
Q201		TRANSISTOR	2SC403SP-51 (EXCEPT US, CND) K155	1-247-897-11	CARBUN	JOOK	5%	1/4W
Q201	0-729-900-30	TRANSISTOR	DTC124E3	R156	1-249-437-11	CARRON	47K	5%	1/4W
Q202	0 720 110 70	TRANSISTOR	2SC403SD 51	R157	1-249-417-11		1K	5%	1/4W
Q202		TRANSISTOR		R158	1-249-441-11		100K	5%	1/4W
Q203 Q204			2SC3623A-LK	R171	1-249-424-11		3.9K	5%	1/4W
Q204 Q231		TRANSISTOR		R171	1-247-887-00		220K	5%	1/4W
Q232		TRANSISTOR							
				R183	1-260-091-11		220	5%	1/2W
Q251		TRANSISTOR		R184	1-260-091-11		220	5%	1/2W
Q252		TRANSISTOR		R201	1-249-429-11		10K	5%	1/4W
Q253		TRANSISTOR		R202	1-247-863-91	CARBON	22K	5%	1/4W
Q254			2SC3623A-LK	R203	1-249-441-11	CARBON	100K	5%	1/4W
Q281	8-729-900-36	TRANSISTOR	DTC124ES	R205	1-247-863-91	CADRON	22K	5%	1/4W
Q282	9 720 000 63	TRANSISTOR	DTA124ES	R206	1-249-421-11		2.2K	5%	1/4W
Q282 Q283				R200		11		5%	
Q203 Q301		TRANSISTOR TRANSISTOR		R207	1-249-431-11 1-249-441-11		15K 100K	5%	1/4W 1/4W
Q901			RT1P137L-TP	R210	1-247-891-00		330K	5%	1/4W
Q901 Q902		TRANSISTOR		K210	1-247-091-00	CARDON	330K	376	1/4 VV
Q902	0-729-900-30	TRANSISTOR	D1C124E3	R211	1-249-441-11	CARRON	100K	5%	1/4W
Q903	8-720-030-18	TRANSISTOR	2SD2525	R212	1-249-411-11		330	5%	1/4W
Q904		TRANSISTOR		R213	1-249-429-11		10K	5%	1/4W
Q904 Q905			RT1P137L-TP	R213	1-249-429-11		47K	5%	1/4VV 1/4W
Q906		TRANSISTOR		R214	1-247-903-00		1M	5%	1/4W
Q907		TRANSISTOR		KZIS	1-247-903-00	CARBON	TIVI	370	1/4 VV
				R216	1-249-429-11	CARBON	10K	5%	1/4W
Q1531	8-729-801-93	TRANSISTOR	2SD1387	R217	1-249-437-11	CARBON	47K	5%	1/4W
Q1532	8-729-900-80	TRANSISTOR	DTC114ES	R221	1-249-425-11	CARBON	4.7K	5%	1/4W
Q1533	8-729-900-80	TRANSISTOR	DTC114ES	R222	1-249-425-11	CARBON	4.7K	5%	1/4W
Q1534	8-729-119-77	TRANSISTOR	2SA1175-FEK	R226	1-249-421-11	CARBON	2.2K	5%	1/4W
Q1535	8-729-900-80								

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

MAIN

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R227	1-249-441-11	CARBON	100K	5%	1/4W	R316	1-249-429-11	CARRON	10K	5%	1/4W
R228	1-249-429-11		10K	5%	1/4W	R318	1-249-429-11		10K	5%	1/4W
R231	1-249-437-11		47K	5%	1/4W	R319	1-249-429-11		10K	5%	1/4W
R231	1-249-437-11		47K 47K	5%	1/4VV 1/4W	R320	1-249-429-11			5%	1/4W
						R320	1-249-429-11	CARBUN	10K	3%	1/4 VV
R234	1-247-886-11	CARBON	200K	5%	1/4W	R325	1-249-427-11	CADDON	6.8K	5%	1/4W
Dase	1-249-421-11	CADDON	2 21/	5%	1/4W	K323	1-247-427-11	CARDON	0.01	3 /0	
R235			2.2K			Daar	1 040 405 11	CADDON	4 71/	F0/	(E, AR, MX)
R236	1-249-441-11		100K	5%	1/4W	R325	1-249-425-11	CARBON	4.7K	5%	1/4W
R253	1-249-441-11		100K	5%	1/4W						(AUS, PX)
R257	1-249-431-11		15K	5%	1/4W	R326	1-249-425-11	CARBON	4.7K	5%	1/4W
R259	1-249-441-11	CARBON	100K	5%	1/4W						(E, AR, MX)
						R326	1-249-427-11	CARBON	6.8K	5%	1/4W
R260	1-247-891-00		330K	5%	1/4W						(AUS, PX)
R261	1-249-441-11	CARBON	100K	5%	1/4W	R327	1-247-807-31	CARBON	100	5%	1/4W
R262	1-249-411-11	CARBON	330	5%	1/4W						
R263	1-249-429-11	CARBON	10K	5%	1/4W	R328	1-247-807-31	CARBON	100	5%	1/4W
R264	1-249-437-11	CARBON	47K	5%	1/4W	R330	1-247-807-31	CARBON	100	5%	1/4W
						R331	1-247-807-31		100	5%	1/4W
R265	1-247-903-00	CARRON	1M	5%	1/4W	R332	1-247-807-31		100	5%	1/4W
R266	1-249-429-11		10K	5%	1/4W	R333	1-247-807-31		100	5%	1/4W
R267	1-249-437-11		47K	5%	1/4W	11333	1 247 007 31	ONNOON	100	370	17 - 7 0 0
R271	1-249-425-11		4.7K	5%	1/4W	R339	1-247-807-31	CADDON	100	5%	1/4W
R271				5%			1-247-807-31		100	5%	1/4W
K2/2	1-249-425-11	CARBUN	4.7K	5%	1/4W	R340					
507/		0.100011		=0.		R341	1-247-807-31		100	5%	1/4W
R276	1-249-421-11		2.2K	5%	1/4W	R342	1-247-807-31		100	5%	1/4W
R277	1-249-441-11		100K	5%	1/4W	R343	1-247-807-31	CARBON	100	5%	1/4W
R278	1-249-429-11		10K	5%	1/4W						
R281	1-249-429-11	CARBON	10K	5%	1/4W	R344	1-247-807-31		100	5%	1/4W
					(US, CND)	R345	1-247-807-31		100	5%	1/4W
R281	1-249-425-11	CARBON	4.7K	5%	1/4W	R346	1-247-807-31		100	5%	1/4W
				(EXC	EPT US, CND)	R349	1-247-807-31		100	5%	1/4W
						R350	1-247-807-31	CARBON	100	5%	1/4W
R282	1-249-429-11	CARBON	10K	5%	1/4W						
					(US, CND)	R351	1-247-807-31	CARBON	100	5%	1/4W
R282	1-249-425-11	CARBON	4.7K	5%	1/4W	R352	1-247-807-31	CARBON	100	5%	1/4W
				(EXCI	EPT US, CND)	R353	1-247-807-31	CARBON	100	5%	1/4W
R283	1-249-435-11	CARBON	33K	5%	1/4W	R354	1-247-807-31	CARBON	100	5%	1/4W
R284	1-247-791-91	CARBON	22	5%	1/4W	R355	1-247-807-31	CARBON	100	5%	1/4W
R285	1-249-441-11	CARBON	100K	5%	1/4W						
						R356	1-247-807-31	CARBON	100	5%	1/4W
R286	1-249-429-11	CARBON	10K	5%	1/4W	R357	1-247-807-31	CARBON	100	5%	1/4W
R287	1-249-429-11	CARBON	10K	5%	1/4W	R359	1-247-807-31	CARBON	100	5%	1/4W
					(US, CND)	R360	1-247-807-31	CARBON	100	5%	1/4W
R287	1-249-427-11	CARBON	6.8K	5%	1/4W	R366	1-247-807-31	CARBON	100	5%	1/4W
				(EXCI	EPT US, CND)						
R288	1-249-438-11	CARBON	56K	5%	1/4W	R367	1-249-429-11	CARBON	10K	5%	1/4W
R289	1-249-437-11	CARBON	47K	5%	1/4W	R368	1-247-843-11	CARBON	3.3K	5%	1/4W
						R369	1-249-429-11	CARBON	10K	5%	1/4W
R291	1-247-863-91	CARBON	22K	5%	1/4W	R381	1-247-807-31		100	5%	1/4W
R292	1-247-863-91		22K	5%	1/4W	R384	1-249-429-11		10K	5%	1/4W
R293	1-249-417-11		1K	5%	1/4W			07.11.12.011		0.70	.,
R294	1-249-441-11		100K	5%	1/4W	R395	1-247-807-31	CARRON	100	5%	1/4W
R295	1-247-903-00		1M	5%	1/4W	R396	1-249-435-11		33K	5%	1/4W
11475	1 2-71-703-00	OT INDOIN	1111	570	1 / T V V	R397	1-247-807-31		100	5%	1/4W
R301	1-249-417-11	CADRON	1K	5%	1/4W	R398	1-247-607-31		33K	5%	1/4W
R302	1-249-429-11		10K	5%	1/4W	R417	1-249-441-11	CARBUN	100K	5%	1/4W
R303	1-249-437-11		47K	5%	1/4W	D012	4 047 045 0	CADBON	000	F0/	4 / 4) * /
R304	1-249-437-11		47K	5%	1/4W	R913	1-247-815-91		220	5%	1/4W
R305	1-249-429-11	CARRON	10K	5%	1/4W	R914	1-249-417-11		1K	5%	1/4W
Doss	4 0 47 007 5	040000	400	F0.	4 (4) 4 (R915	1-249-425-11		4.7K	5%	1/4W
R313	1-247-807-31	CAKRON	100	5%	1/4W	R916	1-247-815-91	CAKRON	220	5%	1/4W

MAIN PANEL

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R917	1-247-815-91	CARBON	220	5%	1/4W			< TERMINAL >			
R918	1-249-425-11		4.7K	5%	1/4W			TERMINAL BOARD	•	, ,	SPEAKER)
R920	1-249-417-11		1K	5%	1/4W	TM132	1-537-240-31	TERMINAL BOARD			
R921	1-247-895-91		470K	5%	1/4W				(SU	IRROUNI	D) (US, CND)
R951	1-249-425-11		4.7K	5%	1/4W						
R952	1-249-425-11	CARBON	4.7K	5%	1/4W			< VIBRATOR >			
R1501	1-249-435-11		33K	5%	1/4W	X301		VIBRATOR, CERAM			
R1502	1-249-417-11		1K	5%	1/4W	X302		VIBRATOR, CRYST			
R1503	1-249-426-11		5.6K	5%	1/4W	*******	*********	*******	******	*****	*****
R1504	1-247-840-00		2.4K	5%	1/4W						
R1505	1-247-863-91	CARBON	22K	5%	1/4W	*	A-4392-477-A	PANEL BOARD, C			
R1506	1-249-421-11	CARBON	2.2K	5%	1/4W						
R1507	1-249-428-11	CARBON	8.2K	5%	1/4W	*	4-978-168-01	HOLDER, FL TUBE			
R1521	1-249-430-11	CARBON	12K	5%	1/4W						
R1522	1-249-426-11	CARBON	5.6K	5%	1/4W			< CAPACITOR >			
R1524	1-249-429-11	CARBON	10K	5%	1/4W						
						C601	1-126-967-11	ELECT	47uF	20%	50V
R1525	1-249-432-11	CARBON	18K	5%	1/4W	C602	1-162-306-11	CERAMIC	0.01uF	20%	16V
R1526	1-249-429-11		10K	5%	1/4W	C603	1-126-963-11		4.7uF	20%	50V
R1527	1-249-429-11		10K	5%	1/4W	C604	1-126-960-11		1uF	20%	50V
R1531	1-247-843-11		3.3K	5%	1/4W	C606	1-126-960-11		1uF	20%	50V
R1532	1-249-411-11		330	5%	1/4W	0000	1 120 700 11	LLLOI	Tui	2070	001
111332	1 2 7 7 1 1 1 1	OTTEDON	330	370	17 7 0 0	C608	1-124-584-00	FLECT	100uF	20%	10V
R1533	1-249-427-11	CARRON	6.8K	5%	1/4W	C610	1-162-306-11		0.01uF	20%	16V
R1534	1-249-429-11		10K	5%	1/4W	C611	1-162-306-11		0.01uF	20%	16V
R1534 R1535	1-249-425-11		4.7K	5%	1/4VV 1/4W	C621	1-102-300-11		0.01ul 0.22uF	20%	50V
R1535	1-249-425-11		4.7K 4.7K	5%	1/4W	C622	1-162-306-11		0.22ui 0.01uF	20%	16V
R1530	1-249-425-11		4.7K 4.7K	5%	1/4W	C022	1-102-300-11	LLLCI	0.01ui	2070	10 V
K1541	1-249-425-11	CARBUN	4./K	5%	1/4 VV	C623	1-124-464-11	ELECT	0.22uF	20%	50V
R1542	1-249-425-11	CADDON	4.7K	5%	1/4W	C624	1-136-159-00		0.22ui 0.033uF		50V 50V
R1542	1-249-425-11		4.7K 4.7K	5%	1/4W	C625	1-130-139-00		2200PF	5%	16V
R1543	1-249-423-11		4.7K 1K	5%	1/4VV 1/4W	C625	1-102-302-11		0.22uF	20%	50V
R1544 R1545					1/4 W				0.22uF 0.22uF		50V 50V
R1545 R1546	1-249-437-11 1-249-437-11		47K 47K	5% 5%	1/4VV 1/4W	C632	1-124-464-11	ELECT	U.ZZUF	20%	201
K1540	1-247-437-11	CARDON	47K	370	1/4 V V	C641	1-162-286-21	CEDAMIC	220	10%	50V
R1547	1-249-437-11	CADDON	47K	5%	1/4W	C642	1-162-286-21		220	10%	50V 50V
R1547 R1548	1-249-437-11		47K 47K	5%	1/4VV 1/4W	C643	1-162-286-21		220	10%	50V 50V
R1546 R1551	1-247-863-91		47K 22K	5%	1/4VV 1/4W	C644	1-162-286-21		220	10%	50V 50V
					1/4VV 1/4W					10%	50V 50V
R1552	1-249-417-11		1K	5% 5%		C645	1-162-286-21	CERAIVIIC	220	10%	307
K1553	1-249-426-11	CARBON	5.6K	5%	1/4W	C (1 (1-162-286-21	CEDANIC	220	10%	50V
R1554	1 247 040 00	CADDON	2.41/	E0/	1 / 4\\ 1	C646					50V 50V
	1-247-840-00		2.4K	5% 5%	1/4W	C647	1-162-286-21		220	10%	50V 50V
	1-247-863-91 1-249-421-11		22K		1/4W	C648	1-162-286-21 1-162-286-21		220	10%	
R1556			2.2K	5%	1/4W	C649			220	10%	50V
R1557	1-249-428-11	CARBON	8.2K	5%	1/4W	C650	1-162-286-21	CERAIVIIC	220	10%	50V
		< VARIABLE RESI	STOR >			C651	1-162-286-21	CERAMIC	220	10%	50V
						C652	1-162-286-21	CERAMIC	220	10%	50V
RV1501	1-238-598-11	RES, ADJ, CARBO	N 2.2K			C653	1-162-286-21	CERAMIC	220	10%	50V
RV1551	1-238-598-11	RES, ADJ, CARBO	N 2.2K			C654	1-162-286-21	CERAMIC	220	10%	50V
						C655	1-162-286-21	CERAMIC	220	10%	50V
		< RELAY >				C695	1-164-159-21	CERAMIC	0.1uF		50V
RY141	1-755-141-11	RELAY (US,CND)				C696	1-164-159-21		0.1uF		50V
		RELAY (24V) (EXC	CEPT US	CND)		C697	1-162-294-31		0.001uF	10%	50V
• • •	/20 11	(2.1) (2/1)		/			27. 31				
								< CONNECTOR >			
						* CN601	1-568-836-11	SOCKET, CONNEC	TOR 17P		



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description			Remark
CN602 * CN603		PIN, CONNECTOR 7P PIN, CONNECTOR 6P		Q610	8-729-119-77	TRANSISTOR	2SA1175-F	EK	
* CN604		PIN, CONNECTOR 8P		Q611	8-729-119-77	TRANSISTOR	2SA1175-F	EK	
				Q614	8-729-119-77	TRANSISTOR	2SA1175-F	EK	
		< DIODE >		Q617	8-729-119-77	TRANSISTOR	2SA1175-F	EK	
				Q618	8-729-119-77	TRANSISTOR	2SA1175-F	EK	
D601 D602		DIODE 1N4148M DIODE 1N4148M		Q619		TRANSISTOR			
D606 D607	8-719-987-63	DIODE 1N4148M DIODE 1N4148M		Q621	8-729-119-77	TRANSISTOR	2SA1175-F	EK	
D611		DIODE SEL5423E-TP15 (TUNER/BAND)				< RESISTOR >			
D612	8-719-058-03	DIODE SEL5423E-TP15 (TUNER/BAND)		R601	1-249-415-11	CARBON	680	5%	1/4W
D613		DIODE SEL5223S-TP15 (ENTER/NEXT)		R602	1-249-431-11		15K	5%	1/4W
D614		DIODE SEL5223S-TP15 (GROOVE)		R603	1-247-903-00		1M	5%	1/4W
D615		DIODE SEL5223S-TP15 (SUPER WOOF	.D)	R608	1-249-429-11		10K	5%	1/4W
D616		DIODE SEL5223S-TF15 (SOFER WOOTE	-1()	R609	1-247-843-11		3.3K	5%	1/4W
D010				1009					
D617		DIODE SEL5223S-TP15 (ENTER)		R610	1-247-843-11		3.3K	5%	1/4W
D618		DIODE SEL5223S-TP15 (FILE 1)		R611	1-249-429-11	CARBON	10K	5%	1/4W
D619	8-719-058-04	DIODE SEL5223S-TP15 (FILE 2)		R612	1-249-429-11	CARBON	10K	5%	1/4W
D620	8-719-058-04	DIODE SEL5223S-TP15 (FILE 3)		R613	1-249-401-11	CARBON	47	5%	1/4W
D621	8-719-058-04	DIODE SEL5223S-TP15 (FILE 4)		R614	1-249-429-11	CARBON	10K	5%	1/4W
D622	8-719-058-04	DIODE SEL5223S-TP15 (FILE 5)		R615	1-249-429-11	CARBON	10K	5%	1/4W
D623		DIODE SEL5223S-TP15 (P.FILE)		R616	1-249-429-11	CARBON	10K	5%	1/4W
D624		DIODE SEL5223S-TP15 (MENU 2)		R617	1-249-429-11	CARBON	10K	5%	1/4W
D625		DIODE SEL5223S-TP15 (MENU 1)		R621	1-249-421-11		2.2K	5%	1/4W
2020	0 717 000 01	DIODE OLLOZZOS II IO (MENO I)		R622	1-249-437-11		47K	5%	1/4W
		< FERRITE BEAD >		NOZZ	1 247 437 11	ONTO	7710	370	17-100
		TERRITE DEND >		R623	1-247-895-91	CARRON	470K	5%	1/4W
FB601	1 /12 /73 21	INDUCTOR (SMALL TYPE)		R624	1-249-421-11		2.2K	5%	1/4W
1 000 1	1-412-473-21	INDUCTOR (SWALL TITE)		R625	1-249-437-11		47K	5%	1/4W
		< FILTER >		R626	1-247-895-91		47K 470K	5%	1/4VV 1/4W
		< FILTER >		R633	1-247-897-11		560K	5% 5%	1/4 VV 1/4 W
FL601	1-517-619-11	INDICATOR TUBE, FLUORESCENT							
		0011		R634	1-247-897-11		560K	5%	1/4W
		< COIL >		R636	1-249-435-11		33K	5%	1/4W
				R637	1-247-895-91		470K	5%	1/4W
L601	1-410-509-11	MICRO INDUCTOR 10uH		R641	1-249-427-11		6.8K	5%	1/4W
				R642	1-247-815-91	CARBON	220	5%	1/4W
		< IC >							
				R643	1-249-410-11	CARBON	270	5%	1/4W
IC601	8-759-446-26	IC TMP87CH74-6544		R644	1-249-412-11	CARBON	390	5%	1/4W
IC602	8-759-459-84	IC NJL56H400		R645	1-249-413-11	CARBON	470	5%	1/4W
				R646	1-249-415-11	CARBON	680	5%	1/4W
		< TRANSISTOR >		R647	1-249-416-11	CARBON	820	5%	1/4W
0/01	0 720 110 70	TDANICISTOD 2004020D F1		D/40	1 040 410 11	CADDON	1 01/	E0/	1/4\\/
Q601		TRANSISTOR 2SC403SP-51		R648	1-249-418-11		1.2K	5%	1/4W
Q602		TRANSISTOR 2SB1116-L		R649	1-249-419-11		1.5K	5%	1/4W
Q603		TRANSISTOR 2SB1116-L		R650	1-249-427-11		6.8K	5%	1/4W
Q604		TRANSISTOR 2SA1175-FEK		R651	1-247-815-91		220	5%	1/4W
Q605	8-729-119-77	TRANSISTOR 2SA1175-FEK		R652	1-249-410-11	CARBON	270	5%	1/4W
Q606	8-729-119-77	TRANSISTOR 2SA1175-FEK		R653	1-249-412-11	CARBON	390	5%	1/4W
Q607		TRANSISTOR 2SA1175-FEK		R654	1-249-413-11		470	5%	1/4W
Q608		TRANSISTOR 2SA1175-FEK		R655	1-249-415-11		680	5%	1/4W
Q609		TRANSISTOR 2SA1175-FEK		R656	1-249-416-11		820	5%	1/4W
2007	0-127-117-//	INDIVIOUS ZONTITOTIES		1,000	1-247-410-11	CAINDOIN	020	J /0	1/~+ VV

PANEL

POWER AMP

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R657	1-249-418-11	CARBON	1.2K	5%	1/4W	S609 S610		SWITCH, TACTILE SWITCH, TACTILE	`	Ξ)	
R658	1-249-427-11	CARBON	6.8K	5%	1/4W	3010	1-554-505-21	SWITCH, IACTILL	(GLU A)		
R659	1-247-815-91		220	5%	1/4W	S611	1-554-303-21	SWITCH, TACTILE	(GF0 <	1)	
R660	1-249-410-11		270	5%	1/4W	S612		SWITCH, TACTILE	`	,	
R661	1-249-412-11		390	5%	1/4W	S613		SWITCH, TACTILE		,	
R662	1-249-427-11		6.8K	5%	1/4W	S614		SWITCH, TACTILE		WOOFFF	?)
		07.11.12.011	0.0.0	0.70	.,	S615		SWITCH, TACTILE			•7
R663	1-247-815-91	CARBON	220	5%	1/4W				(/	
R664	1-249-410-11		270	5%	1/4W	S616	1-554-303-21	SWITCH, TACTILE	(GEQ CO	NTROL)	
R665	1-249-412-11		390	5%	1/4W	S617		SWITCH, TACTILE			
R666	1-249-413-11	CARBON	470	5%	1/4W	S618		SWITCH, TACTILE	. ,		
R667	1-249-415-11	CARBON	680	5%	1/4W	S619	1-554-303-21	SWITCH, TACTILE	(SPECTR	UM ANA	LYZER)
						S620		SWITCH, TACTILE			
R668	1-249-416-11	CARBON	820	5%	1/4W						
R669	1-249-418-11	CARBON	1.2K	5%	1/4W	S621	1-554-303-21	SWITCH, TACTILE	(POWER))	
R670	1-249-419-11	CARBON	1.5K	5%	1/4W	S622	1-554-303-21	SWITCH, TACTILE	(CLOCK S	SET)	
R671	1-249-421-11	CARBON	2.2K	5%	1/4W	S623	1-554-303-21	SWITCH, TACTILE	(REC)		
R672	1-247-843-11	CARBON	3.3K	5%	1/4W	S624	1-554-303-21	SWITCH, TACTILE	(DAILY 1)	
						S625	1-554-303-21	SWITCH, TACTILE	(DAILY 2)	
R673	1-249-425-11	CARBON	4.7K	5%	1/4W						
R674	1-249-427-11	CARBON	6.8K	5%	1/4W	S626	1-554-303-21	SWITCH, TACTILE	(SLEEP)		
R675	1-249-429-11	CARBON	10K	5%	1/4W	S628	1-554-303-21	SWITCH, TACTILE	(WAVE)		
R676	1-249-432-11		18K	5%	1/4W	S629		SWITCH, TACTILE			MPX)
R677	1-249-436-11	CARBON	39K	5%	1/4W	S630		SWITCH, TACTILE			
						S631	1-554-303-21	SWITCH, TACTILE	(P FILE N	/IEMORY	")
R681	1-249-429-11		10K	5%	1/4W						
R682	1-249-421-11		2.2K	5%	1/4W	S701	1-473-392-11	ENCODER, ROTAR	RY (VOLUI	ΛE)	
R683	1-247-887-00		220K	5%	1/4W						
R684	1-249-421-11		2.2K	5%	1/4W			< VIBRATOR >			
R685	1-247-815-91	CARBON	220	5%	1/4W	V/ 04	4 570 405 44	LUBBATOR OFFIA	410 (0141		
D/0/	4 0 4 7 0 0 7 0 4	OADDON	400	F0/	41001	X601		VIBRATOR, CERAN ******	`	,	and the standards of the standards
R686	1-247-807-31		100	5%	1/4W	*******	ate		******	*****	e alse alse alse alse alse alse alse als
R687	1-247-807-31		100	5%	1/4W	*	A 4202 442 A	DOWED AMD DO	NDD COM	וחו בדב /	TIC CND)
R688	1-247-807-31		100	5%	1/4W	*		POWER AMP BOA			US, CND)
R689 R690	1-247-807-31 1-247-807-31		100 100	5% 5%	1/4W 1/4W	~	A-4392-46U-A	POWER AMP BOA	ARD, COIV		PT US, CND)
K090			100	376	1/4 VV			********	******	`	.PT 03, CND)
R691	1-247-807-31		100	5%	1/4W						
R692	1-247-807-31		100	5%	1/4W			< CAPACITOR >			
R693	1-247-807-31		100	5%	1/4W						
R694	1-247-807-31		100	5%	1/4W	C801	1-128-582-11	ELECT	10uF	20%	100V
R695	1-247-807-31	CARBON	100	5%	1/4W			51.507			(US, CND)
5.0.		0.4.0.0.4.1		=0.		C801	1-126-963-11	ELECT	4.7uF	20%	50V
R696	1-247-807-31		100	5%	1/4W	0000	4 4 / 0 00 / 04	0554440	00005		EPT US, CND)
R697	1-247-807-31		100	5%	1/4W	C802	1-162-286-21		220PF	10%	50V
R698	1-247-807-31		100	5%	1/4W	C803	1-162-282-31		100PF	10%	50V
R699	1-247-807-31		100	5%	1/4W	C804	1-126-967-11	ELECT	47uF	20%	50V
R700	1-247-807-31	CARBON	100	5%	1/4W	C806	1-126-967-11	ELECT	47uF	20%	50V
		< SWITCH >				C806	1-128-560-11		47uF 22uF	20%	100V
		< 3WIICH >				C807	1-128-560-11		22uF 22uF	20%	100V 100V
S601	1 55/ 303 31	SWITCH, TACTILE	/ENTED/	NEXT)		C810	1-164-159-21		2.2ur 0.1uF	20%	50V
S602		SWITCH, TACTILE	`	,)	C810	1-104-139-21		0.1ur 0.068uF	5%	50V 50V
S603		SWITCH, TACTILE			,	COLL	1-130-473-00	IVI I LAIN	J.JJOUF	J /0	JU V
S604		SWITCH, TACTILE	•	,		C812	1-130-493-00	MYLAR	0.068uF	5%	50V
S605		SWITCH, TACTILE	•	,		C814	1-162-306-11		0.000ur 0.01uF	20%	16V
3000	1-334-303-21	SWITCH, INCHEE	(TOMING	· '')		C841	1-102-300-11		100uF	20%	10V 10V
S606	1-554-202-21	SWITCH, TACTILE	(THNING	: _)		C041	1-120-733-11	LLLUI	roour	20/0	(US, CND)
S607		SWITCH, TACTILE	`	,		C841	1-126-925-11	FLECT	470uF	20%	(03, CND) 10V
S608		SWITCH, TACTILE				00-11	1 120 720-11		1,001		EPT US, CND)
2000	. 001 000 21	OWNION, MONEL	(1.0.1011)	J. 11)		1				LAGE	55, 5145)

POWER AMP

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Ren	nark
C851	1-128-582-11	FLECT	10uF	20%	100V	R804	1-249-437-11	CARRON	47K	5%	1/4W	
0031	1-120-302-11	LLLGT	Tour	2070	(US, CND)	R805	1-260-107-11		4.7K	5%	1/4W	
					(00, 0112)	11000	1 200 107 11	O/ II (DOI)	1.710	070	(US, C	ND)
C851	1-126-963-11	ELECT	4.7uF	20%	50V						(/-	, ,
					EPT US, CND)	R805	1-260-105-11	CARBON	3.3K	5%	1/2W	
C852	1-162-286-21	CERAMIC	220PF	10%	50V					(EXCE	PT US, C	ND)
C853	1-162-282-31	CERAMIC	100PF	10%	50V	R806	1-260-107-11	CARBON	4.7K	5%	1/2W	
C854	1-126-967-11	ELECT	47uF	20%	50V						(US, C	ND)
C856	1-126-967-11	ELECT	47uF	20%	50V	R806	1-260-105-11	CARBON	3.3K	5%	1/2W	
											PT US, C	ND)
C857	1-128-560-11		22uF	20%	100V	△ R807	1-212-881-11		100	5%	1/4W	F
C861	1-130-493-00		0.068uF		50V	 ⚠ R808	1-208-601-11	WIREWOUND	0.1	10%	2W	F
C862	1-130-493-00		0.068uF		50V	D.000		0.1.0.0.11		=0/	4 (0) 1 (
C901	1-104-482-11	ELECT	4700uF	20%	63V	R809	1-260-076-11		10	5%	1/2W	
0004		EL E 0. T			(US, CND)	R811	1-249-417-11		1K	5%	1/4W	
C901	1-126-974-11	ELECT	3300uF	20%	50V	R812	1-247-863-91		22K	5%	1/4W	
				(EXCE	EPT US, CND)	R813	1-249-441-11		100K	5%	1/4W	
0000	1 120 777 00	EII M	0.1	100/	1001/	R814	1-260-105-11	CARBON	3.3K	5%	1/2W	NID)
C902	1-130-777-00	FILIVI	0.1uF	10%	100V						(US, C	ND)
0000	1 12/ 1/5 00	EII M	0.1	F0/	(US, CND)	D014	1 2/0 000 11	CADDON	11/	F0/	1/0///	
C902	1-136-165-00	FILIVI	0.1uF	5%	50V	R814	1-260-099-11	CARBON	1K	5%	1/2W	NID)
C951	1-104-482-11	ELECT	4700uF	20%	EPT US, CND) 63V	R816	1-260-105-11	CADDON	3.3K	5%	PT US, C 1/2W	ND)
6931	1-104-402-11	ELECT	4700ur	20%	(US, CND)	KOIO	1-200-103-11	CARDON	3.31	376	(US, C	ND)
					(U3, CND)	R816	1-260-099-11	CADDON	1K	5%	1/2W	(טאו
C951	1-126-974-11	FLECT	3300uF	20%	50V	Kolo	1-200-099-11	CARDON	IN		PT US, C	(חוט)
6731	1-120-774-11	LLLGT	3300ui		EPT US, CND)	 ⚠ R820	1-202-972-61	FUSIRI F	1	5%	1/4W	F
C952	1-130-777-00	FII M	0.1uF	10%	100V	R841	1-249-429-11		10K	5%	1/4W	'
0732	1-130-777-00	TILIVI	o. rui	1070	(US, CND)	R842	1-247-885-00		180K	5%	1/4W	
					(00, 0112)	11012	1 2 17 000 00	O/ II (DOI)	10010	070	(US, C	ND)
C952	1-136-165-00	FILM	0.1uF	5%	50V	R842	1-247-881-00	CARBON	120K	5%	1/4W	,
					EPT US, CND)						PT US, C	ND)
					,	R843	1-247-843-11	CARBON	3.3K	5%	1/4W	,
		< CONNECTOR >									(US, C	ND)
						R843	1-249-421-11	CARBON	2.2K	5%	1/4W	,
CN801	1-778-981-11	CONNECTOR, BOA	ARD TO BO	DARD 13	3P					(EXCE	PT US, C	ND)
						R844	1-249-429-11	CARBON	10K	5%	1/4W	
		< DIODE >										
						R851	1-249-417-11		1K	5%	1/4W	
D801		DIODE 1S1585				R852	1-249-437-11		47K	5%	1/4W	
D841		DIODE 1N4148M				R853	1-249-413-11		470	5%	1/4W	
D842		DIODE 1N4148M				R854	1-249-437-11		47K	5%	1/4W	
D851		DIODE 1S1585	F01			R855	1-260-107-11	CARBON	4.7K	5%	1/2W	NID)
D901	8-719-510-68	DIODE D5SBA20	FUI								(US, C	ND)
		< IC >				DOEE	1 240 105 11	CADDON	2 21/	5%	1/2\\/	
		< 16 >				R855	1-260-105-11	CARBON	3.3K		1/2W PT US, C	NID)
IC801	0 7/0 021 60	IC STK-4231MK2) (IIS CNI	2)		R856	1-260-107-11	CADRON	4.7K	5%	1/2W	IND)
IC801		IC STK-4231WK2	•	,	ID)	1000	1-200-107-11	CARDON	4.7K	370	(US, C	ND)
10001	0-747-700-54	10 31K-4102IVIK2	(LACLI I	US, CIV	10)	R856	1-260-105-11	CARRON	3.3K	5%	1/2W	IND)
		< TRANSISTOR >				1000	1-200-103-11	CARDON	3.310		PT US, C	ND)
		(11/11/515101()				 ≜ R857	1-212-881-11	FLISIRI F	100	5%	1/4W	F
Q801	8-729-140-84	TRANSISTOR 2S	C1841-PA	FAFA		△ R858		WIREWOUND	0.1	10%	2W	F
Q851		TRANSISTOR 2S					. 200 001 11		···	.070		•
2301	2.2.110.04					R859	1-260-076-11	CARBON	10	5%	1/2W	
		< RESISTOR >				R861	1-249-417-11		1K	5%	1/4W	
						R862	1-247-863-91		22K	5%	1/4W	
R801	1-249-417-11	CARBON	1K	5%	1/4W	R863	1-249-441-11		100K	5%	1/4W	
R802	1-249-437-11	CARBON	47K	5%	1/4W	******	******	******	******	*****	*****	**
R803	1-249-413-11	CARBON	470	5%	1/4W							

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié. TABLE SENSOR

TC-A SW

TC-B SW

TCB

* 1-659-058-13 TABLE SENSOR BOARD
* 4-980-385-01 HOLDER (SW) R715
R716 1-247-843-11 CARBON 3.3K 5% 1/4W R717 1-249-425-11 CARBON 4.7K 5% 1/4W R717 1-249-425-11 CARBON 4.7K 5% 1/4W R718 1-249-427-11 CARBON 6.8K 5% 1/4W R719 1-249-429-11 CARBON 10K 5% 1/4W R719 1-249-429-11 CARBON 10K 5% 1/4W R719 1-249-429-11 CARBON 18K 5% 1/4W R720 1-249-432-11 CARBON 18K 5% 1/4W R721 1-249-436-11 CARBON 39K 5% 1/4W R721 1-249-436-11 CARBON 39K 5% 1/4W R722 1-247-881-00 CARBON 120K 5% 1/4W R724 1-247-807-31 CARBON 100 5% 1/4W R725 1-247-807-31 CARBON 100 5% 1/4W R725 1-247-807-31 CARBON 100 5% 1/4W R725 1-247-807-31 CARBON 100 5% 1/4W R726 1-247-807-31 CARBON 100 5% 1/4W R726 1-247-807-31 CARBON 100 5% 1/4W R727 1-247-807-31 CARBON
R718 1-249-427-11 CARBON 6.8K 5% 1/4W R719 1-249-429-11 CARBON 10K 5% 1/4W R719 1-249-429-11 CARBON 10K 5% 1/4W R719 1-249-429-11 CARBON 10K 5% 1/4W R719 1-249-432-11 CARBON 18K 5% 1/4W R720 1-249-432-11 CARBON 18K 5% 1/4W R721 1-249-436-11 CARBON 39K 5% 1/4W R721 1-249-436-11 CARBON 39K 5% 1/4W R722 1-247-881-00 CARBON 120K 5% 1/4W R724 1-247-807-31 CARBON 100 5% 1/4W R725 1-247-807-31 CARBON 100 5% 1/4W R725 1-247-807-31 CARBON 100 5% 1/4W R727 1-247-807-31 CARBON 100 5% 1/4W 1/4W R727 1-247-807-31 CARBON 100 5% 1/4W 1/4W
R719 1-249-429-11 CARBON 10K 5% 1/4W R207 1-249-416-11 CARBON 820 5% 1/4W ***********************************
R720 1-249-432-11 CARBON 18K 5% 1/4W R720 1-249-432-11 CARBON 39K 5% 1/4W R721 1-249-436-11 CARBON 39K 5% 1/4W R722 1-247-881-00 CARBON 120K 5% 1/4W R724 1-247-807-31 CARBON 100 5% 1/4W R725 1-247-807-31 CARBON 100 5% 1/4W R727 1-247-807-31 CARBON 100 5% 1/4W R728 1-247-807-31 CARBON 100 5% 1/4W

* 1-664-012-11 TC-A SW BOARD ********* R725 1-247-807-31 CARBON 100 5% 1/4W R727 1-247-807-31 CARBON 100 5% 1/4W

* CN612 1-568-943-11 PIN, CONNECTOR 5P < SWITCH >
< DIODE > S651 1-554-303-21 SWITCH, TACTILE (▷)
S652 1-554-303-21 SWITCH, TACTILE (✓) D631 8-719-057-10 DIODE LNJ301MPUJA (▷) S653 1-554-303-21 SWITCH, TACTILE (▶►)
D632 8-719-057-10 DIODE LNJ301MPUJA (<□) S654 1-554-303-21 SWITCH, TACTILE (<□) S655 1-554-303-21 SWITCH, TACTILE (□)
< RESISTOR > S656 1-554-303-21 SWITCH, TACTILE (■)
R705 1-249-413-11 CARBON 470 5% 1/4W S657 1-554-303-21 SWITCH, TACTILE (● REC)
R706 1-249-415-11 CARBON 680 5% 1/4W S658 1-554-303-21 SWITCH, TACTILE (H.SPEED DUBB) R707 1-249-416-11 CARBON 820 5% 1/4W S659 1-554-303-21 SWITCH, TACTILE (CD SYNC)
R707 1-249-416-11 CARBON 820 5% 1/4W S659 1-554-303-21 SWITCH, TACTILE (CD SYNC) R708 1-249-418-11 CARBON 1.2K 5% 1/4W ************************************
R709 1-249-419-11 CARBON 1.5K 5% 1/4W
* A-4303-510-A TCB BOARD,COMPLETE (US, CND) R710 1-249-421-11 CARBON 2.2K 5% 1/4W * A-4303-512-A TCB BOARD,COMPLETE (EXCEPT US, CND)
R711 1-247-807-31 CARBON 100 5% 1/4W ************************************
R714 1-247-807-31 CARBON 100 5% 1/4W
< SWITCH >
C1 1-162-294-31 CERAMIC 0.001uF 10% 50V S641 1-554-303-21 SWITCH, TACTILE (▷) C2 1-126-967-11 ELECT 47uF 20% 16V
S642 1-554-303-21 SWITCH, TACTILE (△) C3 1-164-159-21 CAP, CERAMIC 0.1uF 50V
S643 1-554-303-21 SWITCH, TACTILE (■) C5 1-162-306-11 CERAMIC 0.01uF 20% 16V
S644 1-554-303-21 SWITCH, TACTILE (◀◀) C6 1-162-306-11 CERAMIC 0.01uF 20% 16V S645 1-554-303-21 SWITCH, TACTILE (▶▶)
C7 1-101-004-00 CERAMIC 0.01uF 50V
S646 1-554-303-21 SWITCH, TACTILE (DOLBY NR) C8 1-162-306-11 CERAMIC 0.01uF 20% 16V
S647 1-554-303-21 SWITCH, TACTILE (DIRECTION) C9 1-162-306-11 CERAMIC 0.01uF 20% 16V

* 1-664-013-11 TC-B SW BOARD C12 1-162-198-31 CERAMIC 8.2PF 10% 50V

C21 1-102-514-11 CERAMIC 22PF 5% 50V
< DIODE > C22 1-164-159-21 CAP, CERAMIC 0.1uF 50V
C23 1-162-306-11 CERAMIC 0.01uF 20% 16V
D635 8-719-057-10 DIODE LNJ301MPUJA (△) C24 1-126-967-11 ELECT 47uF 20% 16V
D636 8-719-057-10 DIODE LNJ301MPUJA (►) D637 8-719-058-17 DIODE LNJ401NPYJA (■) C25 1-162-306-11 CERAMIC 0.01uF 20% 16V

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description		Remark
C26	1-126-964-11	FLECT	10uF	20%	50V			< DIODE >		
C20		CAP, CERAMIC	0.1uF	2070	50V			< DIODL >		
C28	1-126-961-11		2.2uF	20%	50V	D1	8-719-933-33	DIODE UZL-6L1-TA		
C29	1-102-518-11		33PF	5%	50V	D2		DIODE 1N4148M-TA		
02,	02 0.0	02.0.000		0,0		52	0 1 1 7 7 0 7 0 0	5.052		
C30	1-162-294-31	CERAMIC	0.001uF	10%	50V			< FRONT END >		
C31	1-162-306-11	CERAMIC	0.01uF	20%	16V					
C41	1-126-933-11	ELECT	100uF	20%	10V	FE1	1-233-533-11	ENCAPSULATED COMPON	IENT	
C42	1-162-306-11	CERAMIC	0.01uF	20%	16V	FE2	1-239-260-11	ENCAPSULATED COMPON	IENT	
C43	1-126-962-11	ELECT	3.3uF	20%	50V					
0.1.1		0554440						< IC >		
C44	1-162-306-11		0.01uF	20%	16V	101	0.750.000.54	10 1 070100		
C45	1-124-589-11		47uF	20%	16V	IC1	8-759-288-54			
C46	1-162-600-11		4700PF	30%	16V	IC2	8-759-176-03	IC LA1835		
C47 C48	1-162-294-31		0.001uF		50V 50V			< IFT >		
C48	1-126-160-11	ELECT	1uF	20%	5UV			< IF I >		
C49	1-136-159-00	METALIZED FILM	0.033uF	5%	50V	IFT41	1-409-636-11	TRANSFORMER, IF (CERA	MIC FILTE	R)
				(EXCE	PT US,CND)			, ,		,
C49	1-136-162-00	METALIZED FILM	0.056uF	5%	50V			< COIL >		
					(US, CND)					
C50	1-136-159-00	METALIZED FILM	0.033uF		50V	L41	1-410-119-11	MICRO INDUCTOR (EL TY	PE) 1mH	
					PT US,CND)					
C50	1-136-162-00	METALIZED FILM	0.056uF	5%	50V			< FILTER >		
051	1 1/2 /00 11	CEDANAIC	4700DE	200/	(US, CND)	L DE 41	1 220 045 11	FILTED LOW DACC		
C51	1-162-600-11	CERAIVIIC	4700PF	30%	16V	LPF41		FILTER, LOW PASS		
C52	1-162-600-11	CEDAMIC	4700PF	30%	16V	LPF42	1-239-845-11	FILTER, LOW PASS		
C52	1-102-000-11		4700PF 10uF	20%	50V			< TRANSISTOR >		
C54	1-126-157-11		10uF	20%	16V			< TRANSISTOR >		
C55	1-126-964-11		10uF	20%	50V	Q1	8-720-230-00	TRANSISTOR 2SC2669C	ıV₋TDF1	
C56	1-126-964-11		10uF	20%	50V	Q2		TRANSISTOR 2SC2669C		
030	1 120 704 11	LLLOT	Tour	2070	30 v	Q3		TRANSISTOR 2SC2669C		
C57	1-164-159-21	CAP, CERAMIC	0.1uF		50V	Q4		TRANSISTOR 2SC2669C		
C58	1-162-306-11		0.01uF	20%	16V	Q5		TRANSISTOR BN1A4M-1		
C59		CAP, CERAMIC	0.1uF		50V					
C61	1-164-159-21	CAP, CERAMIC	0.1uF		50V			< RESISTOR >		
C62	1-126-967-11	ELECT	47uF	20%	16V					
						R1	1-249-401-11	CARBON 47	5%	1/4W
C63	1-164-159-21	CAP, CERAMIC	0.1uF		50V	R2	1-249-411-11	CARBON 330	5%	1/4W
C64	1-126-959-11	ELECT	0.47uF	20%	50V	R3	1-249-411-11	CARBON 330	5%	1/4W
C65	1-126-960-11		1.0uF	20%	50V	R5	1-249-411-11	CARBON 330	5%	1/4W
C66	1-126-960-11		1.0uF	20%	50V	R6	1-247-863-91	CARBON (SMALL) 22K	5%	1/4W
C67	1-126-964-11	ELECT	10uF	20%	50V					
						R7	1-249-411-11		5%	1/4W
C68	1-162-306-11		0.01uF	20%	16V	R8	1-249-411-11		5%	1/4W
C69	1-162-306-11		0.01uF	20%	16V	R9		CARBON (SMALL) 22K	5%	1/4W
C70	1-162-306-11		0.01uF	20%	16V	R10	1-249-411-11		5%	1/4W
C71	1-162-306-11		0.01uF	20%	16V	R11	1-247-863-91	CARBON (SMALL) 22K	5%	1/4W
C73	1-162-306-11	CERAMIC	0.01uF	20%	16V	D40	4 0 4 0 4 4 4 4 4	040004	F0/	4/04/
074	1 10/ 0/4 11	FLECT	10	200/	F0\/	R12	1-249-411-11		5%	1/4W
C74	1-126-964-11	ELECT	10uF	20%	50V	R13 R14	1-249-411-11	CARBON 330 CARBON (SMALL) 22K	5% 5%	1/4W 1/4W
		< FILTER >				R14 R15	1-247-003-91	, ,	5% 5%	1/4VV 1/4W
		< IILILK >				R16	1-249-429-11		5%	1/4VV 1/4W
CF1	1-567-389-11	FILTER, CERAMIC				V 10	1-247-43/-11	CARDON 4/K	J /0	1/ T V V
CF2		FILTER, CERAMIC				R19	1-249-399-11	CARBON 33	5%	1/4W
01.2	1 307 307-11	TILILIN, OLIVAIVIIO				R21		CARBON (SMALL) 100	5%	1/4W
		< CONNECTOR >				R22	1-249-425-11		5%	1/4W
						R23	1-249-425-11		5%	1/4W
* CN1	1-568-832-11	SOCKET, CONNEC	TOR 13P			R24	1-249-425-11		5%	1/4W

TRANS TCB

R25
R27
R28
R29 1-249-417-11 CARBON 1K 5% 1/4W R31 1-249-417-11 CARBON 1K 5% 1/4W R32 1-249-417-11 CARBON 1K 5% 1/4W R33 1-247-807-31 CARBON 10K 5% 1/4W R34 1-249-429-11 CARBON 10K 5% 1/4W R35 1-249-429-11 CARBON 10K 5% 1/4W R36 1-249-429-11 CARBON 10K 5% 1/4W R37 1-249-429-11 CARBON 10K 5% 1/4W R38 1-249-429-11 CARBON 10K 5% 1/4W R41 1-249-429-11 CARBON 10K 5% 1/4W R43 1-247-843-11 CARBON 10K 5% 1/4W R44 1-249-429-11 CARBON 10K 5% 1/4W R45 1-249-399-11 CARBON 10K 5% 1/4W R46 1-249-399-11 CARBON 33 5% 1/4W R47 1-249-399-11 CARBON 10K 5% 1/4W R48 1-247-843-11 CARBON 33 5% 1/4W R48 1-247-843-11 CARBON 50 33 5% 1/4W R48 1-249-399-11 CARBON 10K 5% 1/4W R59 1-249-429-11 CARBON 10K 5% 1/4W R59 1-249-429-11 CARBON 10K 5% 1/4W R59 1-249-399-11 CARBON 10K 5% 1/4W R50 1-249-319-119-81 FUSIBLE 0.1 5% 1/4W F R50 1-249-399-11 CARBON 33 5% 1/4W R50 1-249-319-119-81 FUSIBLE 0.1 5% 1/4W F R50 1-249-319
R30 1-249-417-11 CARBON 1K 5% 1/4W R31 1-249-417-11 CARBON 1K 5% 1/4W R32 1-249-479-11 CARBON 1K 5% 1/4W R33 1-249-479-11 CARBON 1DK 5% 1/4W R34 1-249-429-11 CARBON 1DK 5% 1/4W R35 1-249-429-11 CARBON 1DK 5% 1/4W R37 1-249-447-11 CARBON 1DK 5% 1/4W R38 1-249-437-11 CARBON 1DK 5% 1/4W R41 1-249-429-11 CARBON 1DK 5% 1/4W R43 1-247-843-11 CARBON 1DK 5% 1/4W R44 1-247-843-11 CARBON 1DK 5% 1/4W R45 1-249-442-11 CARBON 50 5% 1/4W R46 1-249-442-11 CARBON 50 5% 1/4W R47 1-249-399-11 CARBON 1DK 5% 1/4W R48 1-249-399-11 CARBON 1DK 5% 1/4W R48 1-249-399-11 CARBON 1DK 5% 1/4W R59 1-249-429-11 CARBON 1DK 5% 1/4W R59 1-249-399-11 CARBON 1DK 5% 1/4W R59 1-249-429-11 CARBON 1DK 5% 1/4W R59 1-249-429-11 CARBON 1DK 5% 1/4W R59 1-249-429-11 CARBON 1DK 5% 1/4W R59 1-249-399-11 CARBON 1DK 5% 1/4W R59 1-249-429-11 CARBON 1DK 5% 1/4W R59 1-249-429-11 CARBON 1DK 5% 1/4W R59 1-249-429-11 CARBON 1DK 5% 1/4W R59 1-249-399-11 CARBON 1DK 5% 1/4W R59 1-249-399-11 CARBON 1DK 5% 1/4W R59 1-249-399-11 CARBON 1DK 5% 1/4W R50 1-249-429-11 CARBON 1DK 5% 1/4W R50 1-219-119-81 FUSIBLE 0.1 5% 1/4W F R50 1-249-429-11 CARBON 1DK 5% 1/4W R50 1-219-120-11 FUSIBLE 0.1 5% 1/4W F R50 1-249-429-11 CARBON 4,7K 5% 1/4W R50 1-219-120-11 FUSIBLE 0.1 5% 1/4W F R50 1-249-399-11 CARBON 33 5% 1/4W R50 1-219-120-11 FUSIBLE 0.1 5% 1/4W F R50 1-249-399-11 CARBON 4,7K 5% 1/4W R50 1-219-120-11 FUSIBLE 0.1 5% 1/4W F R50 1-249-399-11 CARBON 33 5% 1/4W R60 1-219-120-11 FUSIBLE 0.1 5% 1/4W F R50 1-249-399-11 CARBON 33 5% 1/4W R60 1-219-120-11 FUSIBLE 0.1 5% 1/4W F R50 1-249-399-11 CARBON 33 5% 1/4W R60 1-219-120-11 FUSIBLE 0.1 5% 1/4W F R50 1-249-399-11 CARBON 33 5% 1/4W R60 1-219-120-11 FUSIBLE 0.1 5% 1/4W F R50 1-249-399-11 CARBON 33 5% 1/4W R60 1-219-120-11 FUSIBLE 0.1 5% 1/4W F R50 1-249-399-11 CARBON 33 5% 1/4W R60 1-219-120-11 FUSIBLE 0.1 5% 1/4W F R50 1-249-399-11 CARBON 33 5% 1/4W R70 1-229-2725-00 SOLID 3.3M 10% 1/2W
R31 1-249-417-11 CARBON 1K 5% 1/4W R32 1-249-417-11 CARBON 1K 5% 1/4W R33 1-249-429-11 CARBON 10K 5% 1/4W R34 1-249-429-11 CARBON 10K 5% 1/4W R35 1-249-429-11 CARBON 10K 5% 1/4W R36 1-249-437-11 CARBON 10K 5% 1/4W R37 1-249-417-11 CARBON 10K 5% 1/4W R38 1-249-437-11 CARBON 10K 5% 1/4W R43 1-249-843-11 CARBON 10K 5% 1/4W R43 1-247-843-11 CARBON 10K 5% 1/4W R44 1-247-843-11 CARBON 10K 5% 1/4W R45 1-249-399-11 CARBON 510 5% 1/4W R48 1-249-399-11 CARBON 33 5% 1/4W R49 1-249-399-11 CARBON 10K 5% 1/4W R59 1-249-399-11 CARBON 10K 5% 1/4W R50 1-249-429-11 CARBON 10K 5% 1/4W R51 1-249-429-11 CARBON 10K 5% 1/4W R52 1-249-429-11 CARBON 10K 5% 1/4W R53 1-249-429-11 CARBON 10K 5% 1/4W R53 1-249-429-11 CARBON 10K 5% 1/4W R54 1-249-399-11 CARBON 10K 5% 1/4W R55 1-249-429-11 CARBON 10K 5% 1/4W R50 1-249-429-11 CARBON 10K 5% 1/4W R51 1-249-399-11 CARBON 10K 5% 1/4W R52 1-249-429-11 CARBON 10K 5% 1/4W R53 1-249-429-11 CARBON 10K 5% 1/4W R54 1-249-399-11 CARBON 33 5% 1/4W R55 1-249-425-11 CARBON 10K 5% 1/4W R56 1-249-399-11 CARBON 33 5% 1/4W R57 1-249-399-11 CARBON 33 5% 1/4W R590 1-249-399-11 CARBON 10K 5% 1/4W R50 1-249-399-11 CARBON 10K 5% 1/4
R32 1-249-417-11 CARBON 1K 5% 1/4W R33 1-247-807-31 CARBON (SMALL) 100 5% 1/4W R34 1-249-429-11 CARBON 10K 5% 1/4W R35 1-249-429-11 CARBON 10K 5% 1/4W R37 1-249-429-11 CARBON 10K 5% 1/4W R37 1-249-437-11 CARBON 10K 5% 1/4W R37 1-249-437-11 CARBON 10K 5% 1/4W R41 1-249-429-11 CARBON 10K 5% 1/4W R43 1-247-843-11 CARBON 10K 5% 1/4W R44 1-247-843-11 CARBON (SMALL) 3.3K 5% 1/4W R45 1-247-843-11 CARBON 33 5% 1/4W R46 1-249-399-11 CARBON 33 5% 1/4W R47 1-249-399-11 CARBON 10K 5% 1/4W R59 1-249-399-11 CARBON 33 5% 1/4W R50 1-249-429-11 CARBON 10K 5% 1/4W R51 1-249-429-11 CARBON 10K 5% 1/4W R52 1-249-429-11 CARBON 10K 5% 1/4W R53 1-249-429-11 CARBON 10K 5% 1/4W R54 1-249-399-11 CARBON 10K 5% 1/4W R55 1-249-429-11 CARBON 10K 5% 1/4W R51 1-249-429-11 CARBON 10K 5% 1/4W R52 1-249-429-11 CARBON 10K 5% 1/4W R53 1-249-425-11 CARBON 10K 5% 1/4W R54 1-249-399-11 CARBON 33 5% 1/4W R55 1-249-425-11 CARBON 33 5% 1/4W R56 1-249-399-11 CARBON 33 5% 1/4W R57 1-249-399-11 CARBON 33 5% 1/4W R59 1-249-399-11 CARBON 33 5% 1/4W R50 1-249-399-11 CARBON 33 5% 1/4W R50 1-249-399-11 CARBON 10K 5% 1/4W R50 1-249-399-11 CARBON 33 5% 1/4W R50 1-249-399-11 CARBON 10K 5% 1/4W R50 1-249-399-11 CARBON 10K 5% 1/4W R50 1-249-399-11 CARBON 10K 5% 1/4W R50 1-249-399-11 CARBON 33 5% 1/4W R
R33 1-247-807-31 CARBON (SMALL) 100 5% 1/4W
R34 1-249-429-11 CARBON 10K 5% 1/4W
R35
R36
R37
R41 1-249-429-11 CARBON 10K 5% 1/4W R43 1-247-843-11 CARBON (SMALL) 3.3K 5% 1/4W ▲R901 1-219-119-81 FUSIBLE 0.1 5% 1/4W F R44 1-247-843-11 CARBON (SMALL) 3.3K 5% 1/4W ▲R901 1-219-120-11 FUSIBLE 0.15 5% 1/4W F R46 1-249-442-11 CARBON 510 5% 1/4W KR901 1-219-120-11 FUSIBLE 0.15 5% 1/4W EXCEPT US, CND) R47 1-249-399-11 CARBON 33 5% 1/4W AR902 1-219-119-81 FUSIBLE 0.1 5% 1/4W F R49 1-249-393-11 CARBON 10 5% 1/4W AR902 1-219-119-81 FUSIBLE 0.1 5% 1/4W F R50 1-249-429-11 CARBON 10K 5% 1/4W AR902 1-219-119-81 FUSIBLE 0.1 5% 1/4W F R51 1-249-429-11 CARBON 10K 5% 1/4W AR903 1-21
R44
R44 1-247-843-11 CARBON (SMALL) 3.3K 5% 1/4W ▲R901 1-219-120-11 FUSIBLE 0.15 5% 1/4W F R46 1-249-442-11 CARBON 510 5% 1/4W ★R901 1-219-120-11 FUSIBLE 0.15 5% 1/4W F (EXCEPT US, CND) R47 1-249-399-11 CARBON 33 5% 1/4W ★R902 1-219-119-81 FUSIBLE 0.1 5% 1/4W F (US, CND) R48 1-249-393-11 CARBON 10 5% 1/4W ★R902 1-219-119-81 FUSIBLE 0.1 5% 1/4W F (US, CND) R50 1-249-393-11 CARBON 10K 5% 1/4W ★R902 1-219-120-11 FUSIBLE 0.15 5% 1/4W F (EXCEPT US, CND) (US, CND) (EXCEPT US, CND) (US, C
R46 1-249-442-11 CARBON 510 5% 1/4W R47 1-249-399-11 CARBON 33 5% 1/4W R48 1-247-843-11 CARBON (SMALL) 3.3K 5% 1/4W △R902 1-219-119-81 FUSIBLE 0.1 5% 1/4W F R49 1-249-393-11 CARBON 10 5% 1/4W △R902 1-219-119-81 FUSIBLE 0.1 5% 1/4W F R50 1-249-429-11 CARBON 10K 5% 1/4W △R902 1-219-120-11 FUSIBLE 0.15 5% 1/4W F R51 1-249-429-11 CARBON 10K 5% 1/4W △R903 1-219-119-81 FUSIBLE 0.1 5% 1/4W F R52 1-249-429-11 CARBON 4.7K 5% 1/4W △R903 1-219-119-81 FUSIBLE 0.1 5% 1/4W F R54 1-249-425-11 CARBON 4.7K 5% 1/4W △R903 1-219-120-11 FUSIBLE 0.15 5% <td< td=""></td<>
R47 1-249-399-11 CARBON 33 5% 1/4W R48 1-247-843-11 CARBON (SMALL) 3.3K 5% 1/4W
R48 1-247-843-11 CARBON (SMALL) 3.3K 5% 1/4W
R50 1-249-429-11 CARBON 10K 5% 1/4W
R50 1-249-429-11 CARBON 10K 5% 1/4W R51 1-249-441-11 CARBON 100K 5% 1/4W R52 1-249-429-11 CARBON 10K 5% 1/4W R53 1-249-425-11 CARBON 4.7K 5% 1/4W R54 1-249-425-11 CARBON 4.7K 5% 1/4W R59 1-249-399-11 CARBON 33 5% 1/4W R99 1-249-399-11 CARBON 33 5% 1/4W ■ R903 1-219-119-81 FUSIBLE 0.1 5% 1/4W F ■ (EXCEPT US, CND) ■ R99 1-249-399-11 CARBON 33 5% 1/4W ■ R904 1-219-119-81 FUSIBLE 0.1 5% 1/4W F ■ (US, CND) ■ R904 1-219-119-81 FUSIBLE 0.1 5% 1/4W F ■ (US, CND) ■ R904 1-219-120-11 FUSIBLE 0.1 5% 1/4W F ■ (US, CND) ■ R904 1-219-120-11 FUSIBLE 0.1 5% 1/4W F ■ (US, CND) ■ R904 1-219-120-11 FUSIBLE 0.1 5% 1/4W F ■ (US, CND) ■ R904 1-219-120-11 FUSIBLE 0.1 5% 1/4W F ■ (US, CND) ■ R904 1-219-120-11 FUSIBLE 0.1 5% 1/4W F ■ (US, CND) ■ R904 1-219-120-11 FUSIBLE 0.1 5% 1/4W F ■ (US, CND) ■ R904 1-219-120-11 FUSIBLE 0.1 5% 1/4W F ■ (US, CND) ■ R904 1-219-120-11 FUSIBLE 0.1 5% 1/4W F ■ (US, CND) ■ R907 1-202-725-00 SOLID 3.3M 10% 1/2W
R51 1-249-441-11 CARBON 100K 5% 1/4W
R52 1-249-429-11 CARBON 10K 5% 1/4W R53 1-249-425-11 CARBON 4.7K 5% 1/4W R54 1-249-425-11 CARBON 4.7K 5% 1/4W R99 1-249-399-11 CARBON 33 5% 1/4W R99 1-249-399-11 CARBON 33 5% 1/4W AR904 1-219-119-81 FUSIBLE 0.1 5% 1/4W F (EXCEPT US, CND)
R53 1-249-425-11 CARBON 4.7K 5% 1/4W R54 1-249-425-11 CARBON 4.7K 5% 1/4W R903 1-219-120-11 FUSIBLE 0.15 5% 1/4W F (EXCEPT US, CND) R99 1-249-399-11 CARBON 33 5% 1/4W
R54 1-249-425-11 CARBON 4.7K 5% 1/4W
R99 1-249-399-11 CARBON 33 5% 1/4W
(US, CND) < VARIABLE RESISTOR >
< VARIABLE RESISTOR >
(EXCEPT US, CND) RV41 1-238-600-11 RES, ADJ, CARBON 10K
RV42 1-238-601-11 RES, ADJ, CARBON 22K (US, CND)
< TERMINAL > < SWITCH >
TM1 1-537-238-21 TERMINAL BOARD
(VOLTAGE SELECTOR)(E, AR, PX) < VIBRATOR >
< TRANSFORMER >
X21 1-760-549-11 VIBRATOR, CRYSTAL (4.5MHz)
X41 1-577-075-11 OSCILLATOR, CERAMIC
X42 1-760-220-11 FILTER, CERAMIC
X43 1-527-981-00 FILTER, CERAMIC ***********************************
MISCELLANEOUS
* 1-664-014-11 TRANS BOARD **********

6 1-769-974-11 WIRE (FLAT TYPE) (13 CORE)
1-533-399-31 HOLDER, FUSE 58 1-773-161-11 WIRE (FLAT TYPE) (21 CORE) 59 1-769-949-11 WIRE (FLAT TYPE) (11 CORE)
< CONNECTOR > 120 1-773-051-11 WIRE (FLAT TYPE) (17 CORE)
156 1-777-868-11 WIRE (FLAT TYPE) (19 CORE)
* CN901 1-564-522-11 PLUG, CONNECTOR 7P
* CN902 1-564-518-11 PLUG, CONNECTOR 3P
CN903 1-774-108-11 PIN, CONNECTOR (PC BOARD) △159 1-569-008-11 ADAPTOR, CONVERSION 2P (AR)

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le neméro spécifié.

Ref. No.	Part No.	Description	Remark
357	1-452-538-11	MAGNET	
∆ 401	8-820-020-01		
402	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
		, , , , ,	
	1-558-943-41	CORD, POWER (E, MX, PX)	
	1-575-042-21	CORD, POWER (US, CND)	
	1-575-651-21 1-696-845-11	CORD, POWER (AR) CORD, POWER (AUS)	
	1-500-043-11	HEAD, MAGNETIC (PLAYBACK) (DECK	(Δ)
111 101	1 300 073 11	TIEND, WHONE TO (FERTIDION) (BEOF	(11)
HRPE10	11-500-094-11	HEAD, MAGNETIC (REC/PB/ERASE) (I	DECK B)
M1	X-3371-223-1	MOTOR ASSY, CAPSTAN	
M2		, , , , ,	
M101	X-4917-523-4	,	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M201	A-4660-977-A	MOTOR ASSY (TABLE)	
 ∆ T901		TRANSFORMER, POWER (US, CND)	
 ∆ T901		TRANSFORMER, POWER (EXCEPT US	. ,
******	**********	************	*****

		HARDWARE LIST	

#1	7-685-646-79	*****	
#2	7-685-871-01		
#3 #4	7-685-872-09 7-685-650-79		
#4 #5	7-685-862-09		
" 0	, 000 002 07	2011211 12111 2.010 (0)	
#6	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
#7	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S	
#8	7-621-775-10		
#9 #10	7-685-534-19		
#10	7-623-921-01	RING, RETAINING, CAPSTAN	
#11	7-621-775-00	SCREW +B 2.6X3	
#12	7-621-255-15	SCREW +P 2X3	
*******	**********	***********	*****
	ACCESSODIES	& PACKING MATERIALS	

	1-501-374-11	•	
	1-501-659-41		
	3-859-536-11 3-859-536-21	MANUAL, INSTRUCTION (ENGLISH) MANUAL, INSTRUCTION (FRENCH) (0	(אום)
	3-859-536-31	MANUAL, INSTRUCTION (FRENCH, SI	
	3-03/-330 - 31		iR, MX, PX)
		(2, ,)	, , , , , , ,
	3-859-536-41	MANUAL, INSTRUCTION (CHINESE) (PX)
*	4-987-613-01	INDIVIDUAL CARTON (US)	
*	4-987-615-01	INDIVIDUAL CARTON (AUS)	
	8-917-581-90	REMOCON, SONY RM-SD70//M SET	

HCD-D590/XB4